

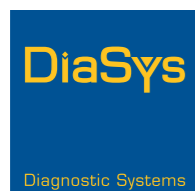
Technical Specifications

System type	Automated bench top random access clinical chemistry analyzer
Throughput	200 tests/hour with a cycle time of 18 seconds for mono and two component tests 360 tests/hour with ISE
Sample types	Serum, plasma, urine, CSF, whole blood
Sample volume	2 – 70 µL
Reagent pipetting	Reagent 1: 50 – 300 µL Reagent 2: 10 – 200 µL
STAT analytics	Several sample positions available
Ion measurement	Direct potentiometry: Na, K, Cl, Li (optional)
Bar code identification	Automatic bar code scan for reagents and samples
Measuring principle	Colorimetry (Rate/Endpoint); Immunoturbidimetric assay
Calibration	Linear, non-linear, multi-point
Sample tray	30 positions for bar coded patient samples including STAT positions, 9 positions for blanks, calibrators, controls or samples without bar code and ISE solutions
Sample tubes/cups	Most commonly used primary blood collection tubes and sample cups
Sample dilution	Dilution ratio: 2- to 150-fold
Reagent onboard capacity	30 different methods in bar coded mono or twin containers for adapter free one grip loading, refrigerated
Reaction temperature	37 ± 0.2°C
Reaction unit	Temperature controlled heated rotor with 45 reusable quartz glass cuvettes (37 ± 0.2°C)
Photometry	8 wavelengths: 340, 405, 450, 505, 546, 578, 660 and 700 nm (mono and bichromatic)
Photometric linearity and resolution	Linearity: 0 – 2.5 OD; Resolution: 0.0001 OD
Water consumption	Up to 7.5 Liters per hour
System interface	Analyzer PC: USB connectivity bi-directional; CPU: Pentium IV or higher
LIS connectivity	Yes
Power source/ Power consumption	AC 220 V ± 10%, 50 ± 1 Hz or AC 110 V ± 10%, 60 ± 1 Hz; 600 VA (excluding PC/printer/monitor)
Dimensions	81cm (W) x 70cm (D) x 60cm (H)
Weight	Approximately 110 kg

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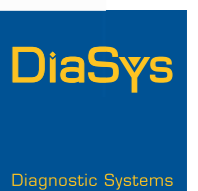
8201021 October 2019

CHOOSING QUALITY.

Bench Top Random Access Clinical Chemistry Analyzer



Economical. Efficient. Precise.
Trusted Performance.



CHOOSING QUALITY.

Reliable Results, Optimized Workflow and High Efficiency

respons[®]920 is the evidence of our ambition to develop and produce outstanding system solutions for the diagnostic laboratory. Bearing in mind the specific demands on throughput and flexibility, this automated random access clinical chemistry system has been designed as a real all-rounder. Due to its concept, respons[®]920 may easily be integrated in all types of laboratories for routine, emergency as well as speciality analysis. respons[®]920 stands for reliable results, optimized workflow and high efficiency. Achieved by the perfect match of analyzer, system reagents, applications and our service.

Guaranteed Throughput of 200 Tests/Hour

- 200 tests/hour with a cycle time of 18 seconds for mono and two component tests
- 360 tests/hour with optional ISE unit

The answers to Your Needs

- High onboard reagent capacity of 30 different methods in bar coded mono and twin containers
- Long term reagent and calibration stabilities
- Large panel of high quality clinical chemistry and immunoturbidimetric tests manufactured by DiaSys
- Unique and convenient respons[®] system container concept
- 30 positions for bar coded patient and STAT samples
- Flexible sample matrix
- Low sample volume
- Customer oriented menu extension for specific system adaption
- Wide measuring ranges

Inter-assay Precision and Recovery

Parameter	Target TLN* value	Mean TLN* value	Recovery [%]	Target TLP** value	Mean TLP** value	Recovery [%]	CV [%] TLN*	CV [%] TLP**	Patient Conc./ [CV%]
AP [U/L]	74.2	72.5	97.7	244	230	94.3	0.64	0.64	54.8/0.5
AST-P5P [U/L]	37.2	38.2	103	200	186	93.2	1.00	0.38	29.7/1.1
AMY [U/L]	72.0	72.2	100	273	265	97.2	0.55	0.36	39.4/0.7
Ca-P [mg/dL]	9.54	9.24	96.9	12.2	11.9	97.5	0.51	1.46	9.40/1.5
CK [U/L]	133	134	100	543	520	95.8	0.73	0.47	144/0.6
CREA-J [mg/dL]	1.13	1.11	98.2	7.73	7.20	93.1	0.57	0.97	0.91/1.8
DBIL [mg/dL]	0.53	0.55	104	2.24	2.43	109	0.81	0.61	0.08/8.3
TBIL [mg/dL]	1.00	0.96	96.0	5.45	5.56	102	1.57	1.35	0.08/5.7
LDH [U/L]	144	138	95.6	394	374	94.9	0.64	0.49	141/0.8
Lipase [U/L]	42.1	45.2	107	80.9	80.5	99.5	0.88	0.61	43.2/1.6
PO4 [mg/dL]	3.39	3.28	96.8	7.09	6.83	96.3	3.45	0.51	4.53/2.1
TP [g/dL]	5.32	5.03	94.5	6.39	5.95	93.1	1.02	0.63	6.84/0.7
UA [mg/dL]	6.33	6.23	98.4	9.44	9.18	97.2	0.37	0.41	4.30/0.5

* TruLab N »Normal« control ** TruLab P »Pathological« control



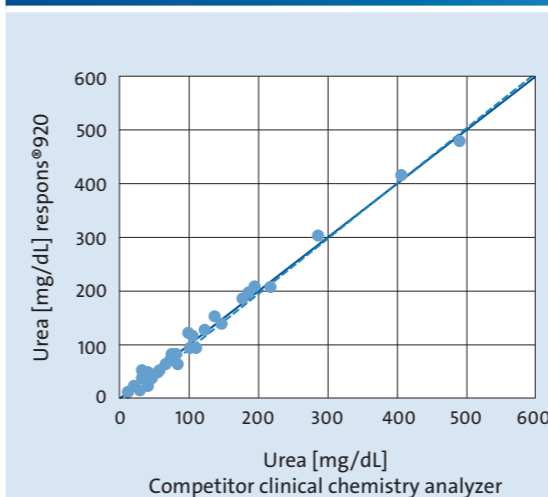
Pleasing to Your Budget

- Minimized running costs
- Low maintenance system
- High onboard and shelf life stabilities of DiaSys reagents

Easy to Use

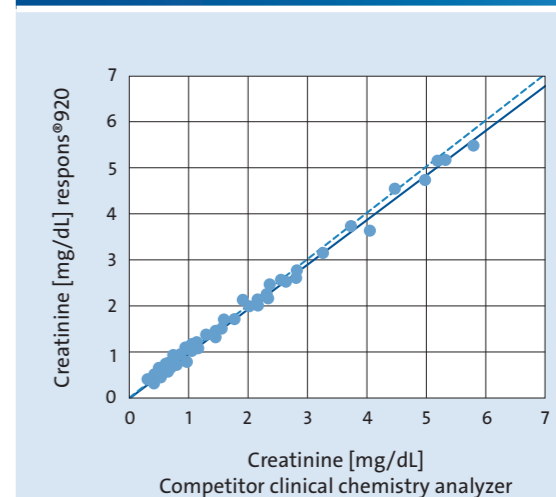
- Automatic bar code scan for samples and reagents
- Ready to use liquid stable reagents
- Adapter free one grip loading of reagent containers
- Versatile software: Set up in eight languages
- Easy to learn

Method Comparison Urea



n = 89; Passing/Bablok Regression:
Y = 0.999 X - 0.622 [mg/dL]; r = 0.9981

Method Comparison Creatinine



n = 100; Passing/Bablok Regression:
Y = 0.961 X + 0.018 [mg/dL]; r = 0.9949