

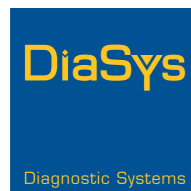
## Technical Specifications

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

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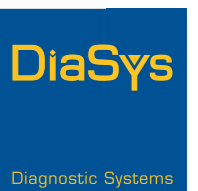
8201021 October 2019

CHOOSING QUALITY.

## Bench Top Random Access Clinical Chemistry Analyzer



**Economical. Efficient. Precise.**  
**Trusted Performance.**



CHOOSING QUALITY.

# Reliable Results, Optimized Workflow and High Efficiency

respons<sup>®</sup>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<sup>®</sup>920 may easily be integrated in all types of laboratories for routine, emergency as well as speciality analysis. respons<sup>®</sup>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<sup>®</sup> 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



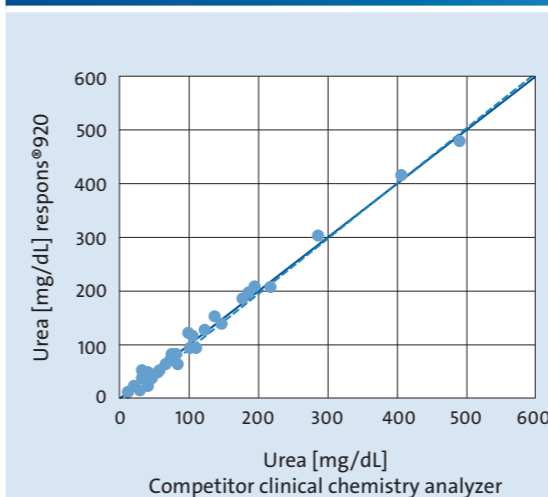
## Pleasing to Your Budget

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

## Easy to Use

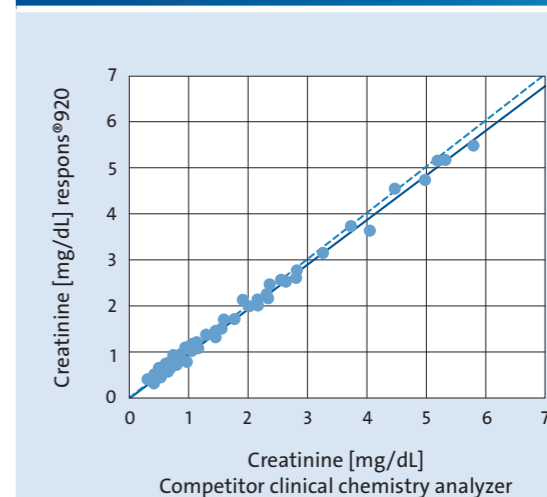
- Automatic bar code scan for samples and reagents
- Ready to use liquid stable reagents
- Adapter free one grip loading of reagent containers
- Versatile software: Set up in eight languages
- Easy to learn

## 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