

HumaStar 150SR

Closed System Analyzer

- Random-access benchtop HumaStar system
- For low- to medium-throughput laboratories
- Plug-and-run technologies

CLINICAL CHEMISTRY



HumaStar 150SR
Video on YouTube

Human

Diagnostics Worldwide

HumaStar 150SR

Closed System Analyzer

- > **Quality**
- > **Efficiency**
- > **Economy**

Plug-and-run technologies

- > Barcoded System reagents with long on-board stability (up to 40 days)
- > Validated and pre-programmed HUMAN methods
- > Reagent tracing software features
- > Automatic calibration and quality control validity check
- > Barcode recognition of reagents and optional for samples
- > Reagent inventory monitoring

Closed for safety

- > Password driven user management
- > Detailed method verification
- > Reagent control by barcode
- > Software monitored reagent exchange

High efficiency for operation

- > Designated test count per kit
- > Perfect cost control
- > Low water consumption: less than 1 l per hour
- > Wide optimized assay linearities
- > Superb throughput per working space
- > Easy to train and use
- > Minimal daily maintenance
- > Long-life photometer lamp (up to 2500 hours)

ISE module (optional)

- > Na, K, Cl
- > Direct ISE

For customers with a test volume of less than 30 ISE/day, we recommended the usage of system reagents:

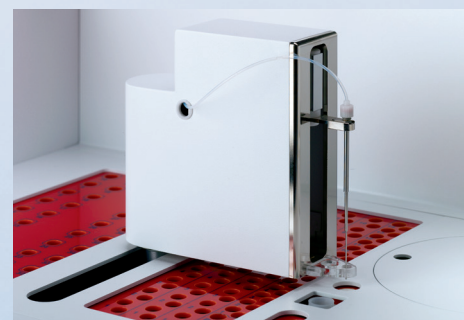
Potassium liquiUV REF 10120150

Sodium liquicolor REF 10113150

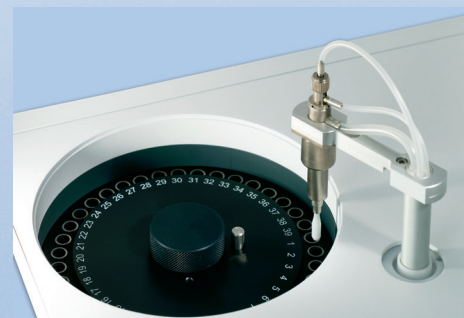
or

Humalyte Plus³ REF 17470/10

Humalyte Plus⁵ REF 17470/20



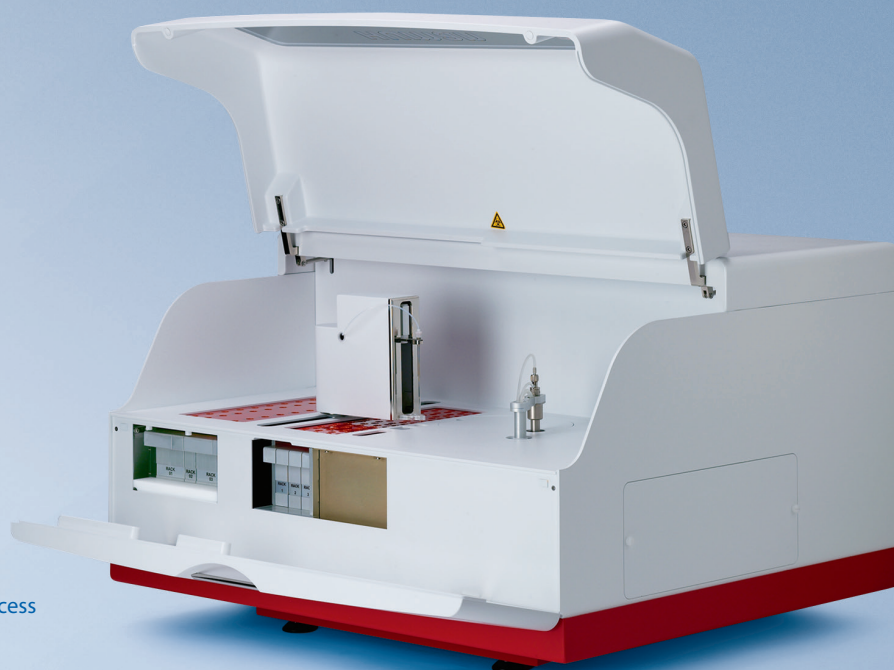
Pipettor unit



Cuvette wash station



System reagent



HumaStar 150SR

Closed System Analyzer, random-access

Cat. No. 16920

Versatile and easy to use

- > Supportive
- > Flexible
- > Secure

Perfect for your workflow

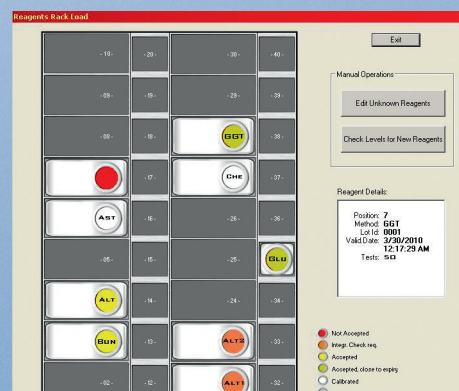
- > Extended walk-away time due to high loading capacity
- > Continuous loading of samples
- > Multiple reagent bottles per method allowed
- > Primary tubes and secondary cups
- > STAT functionality
- > Automatic test repeat
- > Define your own test profiles
- > Automatic dilution of samples or multipoint calibration
- > USB port for external data storage and archiving

Built-in features

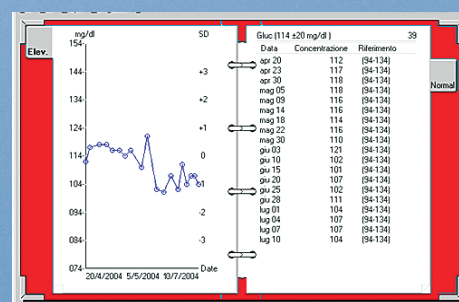
- > Levey-Jennings quality control chart
- > Test counter for samples, calibrations and controls
- > Error flags at screen and reports
- > User definable reports
- > Reagent barcode reading and consumption monitor
- > Bi-directional LIMS connectivity by ASTM protocol



Home screen



Reagent monitor



Quality control chart

ASSAY PANEL & TECHNICAL DATA

System Reagents

Cat. No.

Enzymes

tests

ACID PHOSPHATASE	2 x 40	10660150
ALK. PHOS DEA	2 x 75	12027150
alpha-AMYLASE	3 x 60	12028150
CK-MB	2 x 25	12118150
CK-NAC	2 x 25	12015150
gamma-GT	2 x 75	12023150
GOT (ASAT)	3 x 130	12021150
GPT (ALAT)	3 x 130	12022150
LDH SCE	3 x 30	12014150

Substrates

ALBUMIN	3 x 50	10560150
auto-BILIRUBIN-D	3 x 100	10741150
auto-BILIRUBIN-T	3 x 100	10742150
auto-CREATININE	3 x 130	10052150
CREATININE (enzym)	2 x 75	10053150
CHOLESTEROL	3 x 90	10028150
HDL CHOLESTEROL	3 x 50	10084150
LDL CHOLESTEROL	3 x 50	10094150
GLUCOSE	3 x 100	10260150
TOTAL PROTEIN	3 x 100	10570150
TRIGLYCERIDES	3 x 100	10724150
UREA	3 x 120	10521150
URIC ACID	3 x 110	10694150

Electrolytes

CALCIUM	3 x 50	10011150
IRON TPTZ	2 x 60	12290150
MAGNESIUM	3 x 20	10010150
PHOSPHORUS	3 x 60	10027150
POTASSIUM	1 x 75	10120150
SODIUM	1 x 75	10113150

Turbidimetry

CRP	2 x 75	11241150
CYSTATIN-C	2 x 75	11150150
RF *	2 x 50	11261150
HbA _{1c}	1 x 75	10770150

Controls and calibrators

HumaTrol N	6 x 5 ml	13511
HumaTrol P	6 x 5 ml	13512
SERODOS®	6 x 5 ml	13951
SERODOS® plus	6 x 5 ml	13151
AUTOCAL	4 x 5 ml	13160

* available 4th quarter 2014

Technical Data

HumaStar 150SR

Cat. No. 16920

Mode	Closed random access analyzer
Throughput	150 tph optimized 110 tph typical
Analysis modes	End Point, Fixed Time, Kinetic, Bichromatic, Differential, Multi-standard, Log/Logit, Cubic or Logistic
Samples	3 – 70 µl/test
Reagents	30 sample positions 14 positions for control, calibrator, STAT Primary tubes (13 x 75 mm) or sample cups 40 reagent positions 40 and 10 ml bottles 3 – 600 µl/test Refrigeration to 12 °C below ambient
Reaction	39 quartz cuvettes 7 mm light path Water bath incubation Cuvette wash station
Optic system	8 discrete wavelengths (340, 380, 405, 510, 546, 578, 620, 700 nm) Photometric linearity: from – 0.5 to 2.5 Abs +/- 1 % Photometric sensitivity: 0.0001 Abs.
Data management	Windows XP-based software Bi-directional interface Industrial Risc Computer 200 MHz 256 MB RAM, Hard Disk 80 GB 1 x serial port, 4 x USB
Printout	by test, sample, patient, QC, calibration
Power requirements	110/220 V, 50/60 Hz, 300 VA
Water consumption	< 1l/h
Dimensions	78 x 66 x 48 cm 64 kg
Environmental conditions	max. temp. 35°C, humidity max. 80 % non-condensing

Human

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