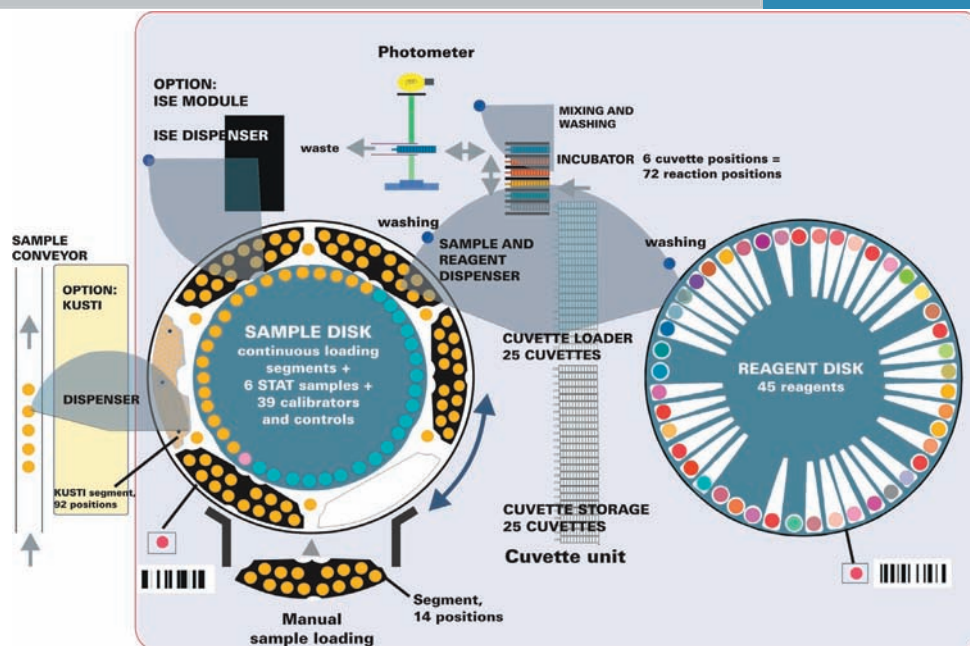


Konelab PRIME 30

Konelab PRIME 30 is a random access clinical chemistry system for routine and special chemistries, including specific proteins, electrolytes, therapeutic drugs, and drugs of abuse tests.

The broad range of CE marked applications can be complemented with user-definable tests.



Throughput

Workload dependent, being in typical routine use up to 300 tests/hour. Time to first result is typically 3 to 12 minutes.

Samples

Continuous access to samples without interrupting test processing. Optional automation interface, KUSTI. ON-BOARD CAPACITY: 84 routine samples and 6 STAT samples - 6 segments with 14 positions per segment. Integrated barcode reader and cup/tube recognition. SAMPLE CUPS AND TUBES: 0.5 ml and 2.0 ml cups, 5 ml and 7 ml tubes, 10 ml tubes with tailored segments. SAMPLE TYPES: Serum, plasma, urine, CSF, whole blood. SAMPLE VOLUMES: Possible range 1-120 μ l ; typically 2-15 μ l and 50 μ l for Na⁺, K⁺ and Cl⁻ ISE tests.

Reagents

Continuous access to reagents without interrupting test processing. Automated identification by integrated barcode reader. Real time reagent status clearly displayed. Up to four reagent additions / test possible. ON-BOARD STORAGE: 45 positions in the refrigerated reagent compartment. REAGENT VESSELS: 10, 20 and 60 ml REAGENT VOLUMES: 2-250 μ l ; typically 120 - 200 μ l.

Cuvettes

Discrete disposable multicell cuvettes. Continuous access to cuvettes without interrupting test processing. ON-BOARD CAPACITY: 600 measurement cells - 50 multicell cuvettes with 12 reaction cells, typically up to 2 hours walk-away time.

Technical Specifications

Konelab PRIME 30

Applicable for use outside the US

Calibration

Linear, non-linear or bias calibration. Method-dependent use of individual calibrators or automatically diluted series from a stock calibrator. Automatic repeat for bias correction available.

Memory for 99 different calibrators. ON-BOARD CAPACITY: 39 positions either for calibrators or controls in the cooled area of the sample disk, also possible to load them into segments.

Quality Control

Real time QC with multiple, user-definable Westgard rules. Programmable control interval. QC chart printouts, daily and cumulative reports.

Memory for 99 different controls. ON-BOARD CAPACITY: 39 positions either for calibrators or controls in the cooled area of the sample disk, also possible to load them into segments.

Sample and Reagent Dispensing

Externally and internally rinsed single probe dispenser equipped with level sensing.

Dispensing with precision syringe driven by stepping motor.

Automatic sample clot detection.

REACTION END VOLUME:

100-250 μ l.

SAMPLE CARRY OVER: <1%.

REPRODUCIBILITY:

CV less than 2% for sample volumes ≥ 2 μ l and for reagent volumes >5 μ l.

Dilutions

Automatic sample predilution. Automatic postdilution with both high and low secondary dilution ratios. Ability to add the value of manual pre-dilution for the result calculation.

AUTOMATIC DILUTION RATIOS: up to 1+120

Photometric Measurement

Single channel interference filter photometer with beam splitting reference - 11 fixed filters, others available upon request.

SPECTRAL RANGE: 340-800 nm.

MEASUREMENT TEMPERATURE: 37 $^{\circ}$ C

MEASUREMENT PRINCIPLES:

Colorimetric, turbidimetric

MEASUREMENT MODES:

Kinetic, end-point

KINETIC MEASUREMENT:

30 sec to 60 min, max 12 points

LIGHT SOURCE: Halogen lamp with linear absorbance range of 0-2.5 A, resolution of 0.001 A and reproducibility of $SD \leq 0.005$ A at 2 A.

ISE Measurement

Direct potentiometry. Electrodes for Na^{+} , K^{+} and Cl^{-} ; upon request Li^{+} , Ca^{2+} and pH.

USABLE RANGE: (mmol/l)

serum, plasma:

K^{+} 2.0 - 10

Na^{+} 100 - 200

Cl^{-} 55 - 150

Ca^{2+} 0.5 - 6.0

pH 6 - 8.5

serum:

Li^{+} 0.2 - 4.0

urine:


K^{+} 20 - 200

Na^{+} 20 - 200

Environmental Conditions

Operating temperature range of 15-32 $^{\circ}$ C; humidity 40-80% (non condensing).

Regulatory

CONFORMITY WITH: 98/79/EC IVDMD Directive. 

Data Management

Integrated Windows[®] XP workstation with graphical user interface. Data input online, via touch screen or keyboard. Different language versions available.

SAMPLE BARCODES IN USE: Code 128, Code 39, USS Codabar, Interleaved 2 of 5.

LIS INTERFACE: ASTM 1394-91 or KONE Online.

HARDWARE INTERFACE:

RS-232 or TCP/IP

RESULT REPORTS: Collated by patients, manual entry of off-line results allowing for fully collated result reports, results calculated from both measured and off-line results. Automatic or 'on request' printouts, automatic STAT reporting. Abnormal values and repeats flagged automatically.

DATA STORAGE: Long term storage of patients with demographics including test and QC results and calibrations.

Dimensions and Weight

Width 140 cm + arm max 80 cm, depth 82 cm, height 120 cm, weight 300 kg.

Power Requirements

100-240 V $\pm 10\%$, 50-60 Hz $\pm 5\%$, 700 W + workstation PC and monitor. Power failure security (battery back-up facility).

Water Consumption

Typically <1.5 l/h

On-board storage with no external connections required.

Ordering Codes

984850 Konelab PRIME 30

984851 with ISE

984860 with KUSTI

984861 with ISE and KUSTI

NOTE: The information and technical specifications are subject to change without notice.

CODE D06571_A
09 / 2008