

How Can You Increase Productivity in Your Lab?

SYNCHRON LX[®]20

General Chemistry

Immunodiagnosics

Centrifugation

Disease Management

Clinical Research

Cellular Analysis

Hematology

Flow Cytometry

Hemostasis

Lab Automation

Data Management

Primary Care



It takes real power to increase productivity in your lab — the power to simplify and the power to make the analytical process more integrated and efficient.

It takes the power of the SYNCHRON LX20.

The SYNCHRON LX20 performs random access, STAT and batch profiling of more than 95 analytes, including critical care tests, general chemistries, TDMs, DATs, thyroids and esoterics.

Increase productivity with these LX20 features:

- 42-second critical care panels
- No daily maintenance
- Clot detection and auto correction
- Automatic checking of serum indices (hemolysis, icterus, lipemia)
- Easy-to-use liquid reagents, calibrators and controls



SYNCHRON LX[®]20 Specifications

Measurement Principles

ISE (Ion Selective Electrode)
Conductivity Electrode
Glucose Oxygen Sensor
Colorimetric
Immuno-turbidimetric
CEDIA*
Bidentate
Enzyme Immunoassay
Rate
Endpoint

Throughput

1440 tests/hour maximum
11 critical-care chemistries in 42 seconds

Reaction Carousel Temperature

Cuvette chemistry methods:
37°C (± 0.2°C)
Other module temperatures:
37°C and 41°C, chemistry method dependent
ISE methods:
ambient room temperature

Cartridge Reagent Compartment Temperature

+2°C to +8°C

Reagent Capacity

41 methods simultaneously on board
30 cartridge chemistries
5 ISE chemistries
6 modular chemistries

Bar-Code Reagent Features

Automatic tracking of:
Number of tests
Available tests
Expiration date
Lot number
Calibration expiration

Sample Management/Capacity

140 samples, continuous loading

Bar-code symbologies:
Code 39 (Code 3 of 9, or SD-3),
Code 128 (USD-6),
Interleaved 2 of 5 (USD-1),
Codabar (USD-4)

Sample volume as low as 3 µL
Sample serum indices (hemolysis, lipemia,
icterus assessment)
Sample probe obstruction detection

Sample Types

Serum
Plasma
Urine
CSF
Whole blood hemolysate

Sample Container Sizes

Primary tubes:
10.25 X 64 mm (3 mL)
13 X 75 mm (5 mL)
13 X 100 mm (7 mL)
16 X 75 mm (7 mL)
16 X 100 mm (10 mL)

Sample cups:
0.5 mL, 2.0 mL

SYNCHRON Microtubes™

Reporting Units Available

(chemistry method dependent)

Weight/Volume:
pg/mL, ng/mL, µg/mL,
pg/dL, ng/dL, µg/dL, mg/dL, g/dL,
mg/L, g/L

Mass/Volume:
nmol/L, µmol/L, mmol/L

Units/Volume and miscellaneous units:
mEq/L
nKat/L, µKat/L
µIU/L, IU/mL
mIU/L, U/L, IU/L, mA, mA/min
, nIU/dL, mIU/mL

Communication Modes

Unidirectional, bidirectional, bidirectional with
true Host Query
RS-232C Serial

Power and Environmental Requirements

Analyzer:
220 VAC
50/60 Hz
20A Nema L6-20R twistlock connector

Computer console and monitor:
100 to 240 VAC
50/60 Hz

Printer:
120 VAC or 240 VAC
50/60 Hz

Heat output:
7,000 BTU/hour

Ambient operating environment:
Ambient Temperature: +18°C to +32°C
Relative Humidity: 10 to 85% relative,
non-condensing

Dimensions and Weight

Analyzer only:
Height: 60 inches (152.4 cm)
Length: 70 inches (177.8 cm)
Depth: 41 inches (104.1 cm)
Zero rear clearance required
Weight: 1620 pounds (735 kg) without liquids

Detection Systems

Cartridge chemistry detector:
Type: Multi-wavelength, diffraction grating
spectrophotometer
Light source: Pulsed xenon lamp
Detector: Diode array for 340, 380, 410, 470, 520,
560, 600, 650, 670, 700 nm wavelengths

Modular detectors:

5 ISE
2 Electrochemical
4 Colorimetric

Chemistry Menu Capacity

> 80 preprogrammed, bar-coded methods
currently available
On-board data storage for 100 user-defined methods

Calibration Types

Single-point, 2-point, multi-point
Linear and non-linear models
(chemistry method dependent)

System Console Computer

3.5 inch, 1.44 MB floppy diskette
≥ 2.0 GB hard disk drive
128 MB RAM
CD-ROM

Water Requirements

0.6 L/minute peak flow rate
16 L/hour minimum continuous flow rate
NCCLS Type II deionized, <10 CFU/mL

Drain Requirements

Minimum rate of 16 L/hour
< 36 inches (91.4 cm) above the floor

System Configurations

LX20 (P/N 466002)
LX20 with Advanced Data Manager (P/N 473009)
Cart optional (P/N 472876)

* CEDIA is a registered trademark of Roche Diagnostics.



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