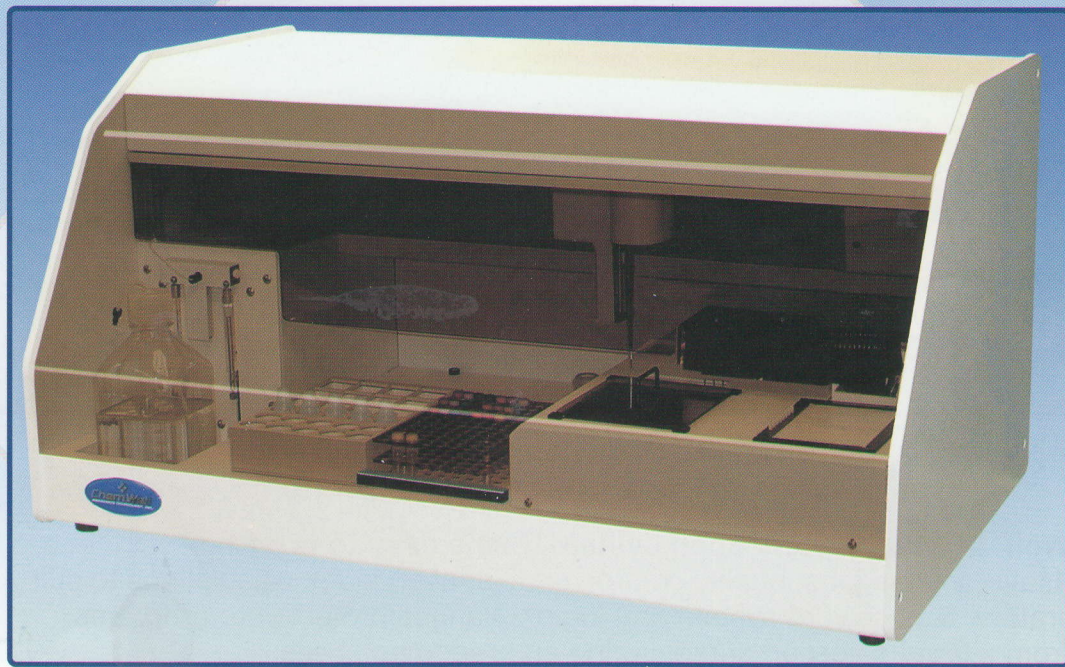


Chem Well[®] 2902



*Automated Biochemistry
for the modern laboratory*



AWARENESS TECHNOLOGY INC

Cost Effective by Design[®]

Chem❖Well® 2902

Automated Biochemistry for the modern laboratory
designed to maximize dependability, versatility, and economy.



**An open system you can program
for the reagent applications of your choice.**

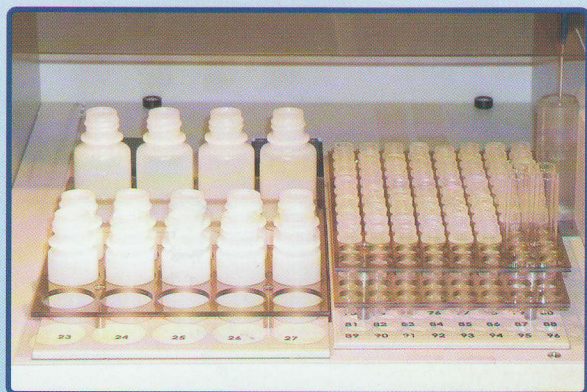
Chem❖Well® is a completely open system that is easy to program.

Set up assays, routine jobs, quality control, panels, even index calculations to suit your laboratory. A password system and log of changes protect your programs. Choose from a large selection of monitoring and reporting styles.

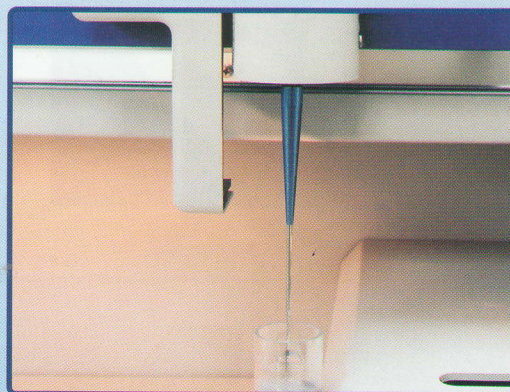
Precise pipetting of low volume specimens, elimination of carry over, and careful control of temperature are essential to obtaining reliable results.

Chem❖Well® can make pre-dilutions, however this is seldom necessary since a high level of precision is achieved even with a 2uL sample. Carryover is eliminated without the need for disposable pipet tips. A unique wash cup assures cleaning inside and out. In addition, extra washes may be programmed for any particularly sensitive assay. With a completely open system you can program additional wash volume, or increase the number of washes, or even direct the probe to pick up and dispense a probe cleaning solution after each specimen.

Chem❖Well® can process assays at ambient temperature or 37°C. An incubator is provided for biochemistry wells to assure precise kinetic reactions. The probe is also temperature-controlled to deliver 37°C reagents. An optional reagent cooling accessory (RCA) is available to protect reagents from ambient heat. Removable racks can be refrigerated, pre-loaded and ready for the next use.



27 reagents, 96 samples



Probe washes inside and out

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200
per
L

Lic
sen
prol
M
carr

ST
QC tr
self-mo
reflex

Rea
volume
No cl
dispo
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230
115
inj
safety
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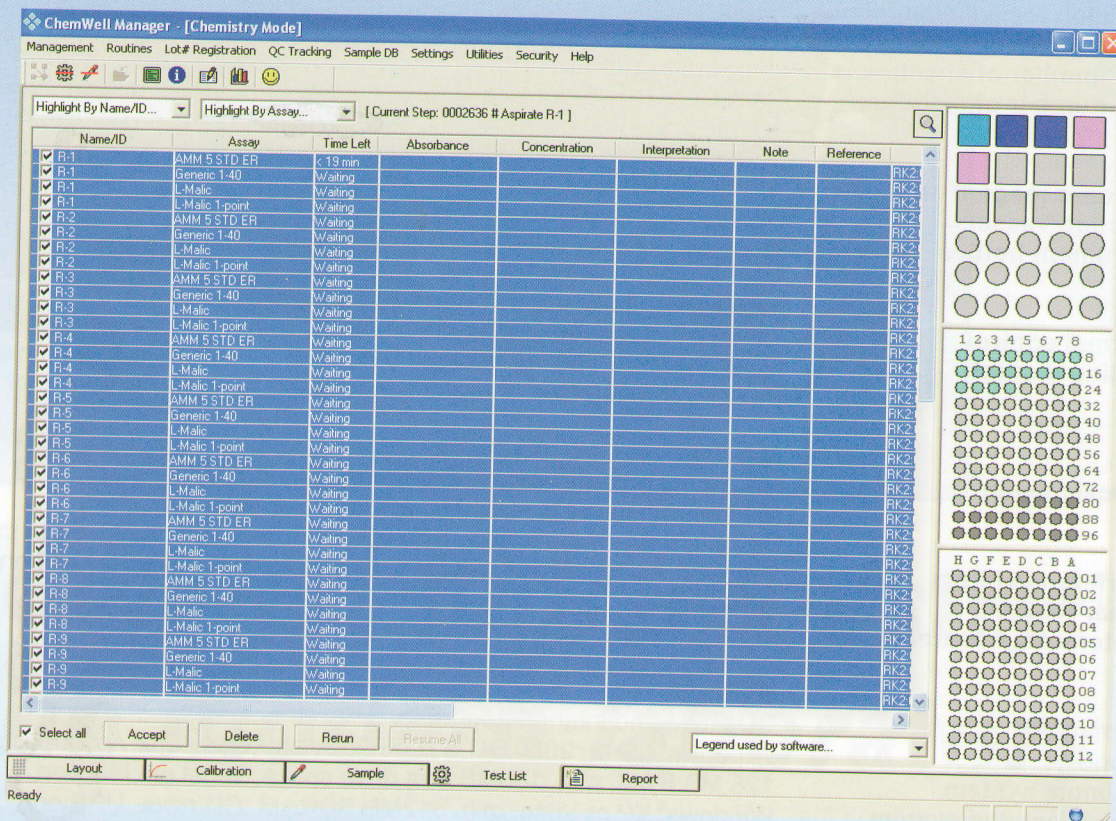
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ChemWell® is versatile.

Set up a full or partial plate of assays and program ChemWell® to automatically make dilutions, dispense reagents, incubate, read, and prepare final reports. You can program ChemWell® as either a batch analyzer or a continuous loading random-access analyzer for performing clinical biochemistry tests.

ChemWell® is economical.

ChemWell® uses uncoated microwells to run low-volume samples for biochemistry reactions. Performing biochemistry assays in microwells offers many advantages, among which are increased throughput and decreased cost per test. The wells can also be washed for re-use. ChemWell® reads vertically using 4 optical channels and 8 wavelengths.

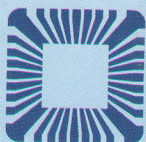


Simply load reagents, samples, and micro-wells.
Then, select the assays and reports you want to see.

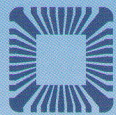
THE REST IS AUTOMATIC

ChemWell® 2902

Automated Biochemistry for the modern laboratory



ChemWell® is designed and manufactured in the USA by Awareness Technology, Inc.
PO Box 1679 Palm City, FL 34991 USA tel 772-283-6540 fax 772-283-8020
email: info@awaretech.com website: <http://www.awaretech.com>
ChemWell is supplied only by qualified, factory-trained distributors.



ChemWell[®] 2902 Technical Specifications

Typical throughput
Typical reaction volume
Dimensions

General

Up to 200 endpoint reactions per hour, up to 170 kinetic reactions per hour.
200 μ L or less.
34"(86cm) left to right, 18"(40cm) height, 21"(51cm) front-to-back.
Approximate weight 80 lbs (36kg).

Capabilities
Pumps
Probes
Min. and Max. Volume
Precision for volumes <5 μ L
Precision for volumes >5 μ L
Max. number of specimens
Max. number of reagents

Reagent and Sampling Dispensing

Dilution, pre-dilution, dispensing single or multiple reagents.
Two syringe pumps, sized 50 μ L and 2.5mL.
316 stainless steel for maximum reagent compatibility, level sensing.
2 μ L - 1.95mL.
<2.5% CV.
<1% CV.
96 (including calibrators and controls).
Typically 27 to 44 or more (you can program reagents to go in the sample rack; assorted replaceable racks and custom designed racks are available for various bottle sizes).
27 positions. Other configurations optional.
Standard micro wells, strips or plates.
1L priming bottle included. Drain bottle required, but not supplied.

Standard reagent rack
Reaction vessel
Instrument bottles

Thermal control
Cooling control

Incubating, timing and temperature control

Well, probe, and tubing; ambient or 37°C (other options also available).
RCA, Reagent Cooling Accessory cools to 2° to 15°C below ambient through Peltier thermoelectric modules connected to an external controller.

Optical design

Reading

Reads absorbance in 4 channels simultaneously.
Monochromatic or bichromatic results, user-selected.
8 position filter wheel: 340, 405, 450, 505, 545, 600, 630, 700 or custom.
Long life, hard coat, ion assisted deposition, 10nm typical half bandpass.
0.0 to 3.0A.
 \pm 1% or better, NIST traceable calibration.

Interference filters
Linear Range
Photometer Accuracy

Format
Supports
Minimum system
Recommended system
Calculation modes

Software

CD-ROM and internet upgrades.
Windows[®] 98SE, 2000, NT 4.0, XP, or Vista (Computer not supplied).
128 MB RAM, min. 100MB free drive space, serial or USB port.
Windows[®] XP or Vista, min. 512MB SDRAM, CD drive, USB port.
Absorbance, single standard, factor, fixed time kinetics, kinetics by multipoint, kinetics by standard or factor, multipoint, linear regressions, polynomial, cubic spline, 4-parameter, cutoff by absorbance or standard, and more.
Lamp, bottle volumes, filters, mechanical function, and more.
Store control data, print Levey-Jennings or QC range plots.
LIS compatible, patient database stores test results.

Self monitoring modes
QC options
Other

Awareness Technology is certified under ISO 13485:2003.