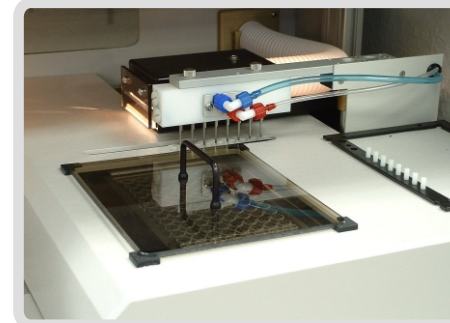


ChemWell® 2910 Technical Specifications

ChemWell® 2910 Biochemistry and EIA

combined in
one modern
system



- Typical throughput
- Typical reaction volume
- Dimensions

General
up to 200 endpoint reactions per hour, up to 170 kinetic reactions per hour
200µL or less
36.25"(92.1cm) width, 18.75"(47.6cm) height, 21.5"(54.6cm) depth,
Approximate weight 80 lbs (36Kg)

- Capabilities
- Pumps
- Probes
- Min. and Max. Volume
- Precision for volumes <5µL
- Precision for volumes >5µL
- Maximum number of specimens
- Maximum number of reagents

Reagent and Sampling Dispensing
dilution, pre-dilution, dispensing single or multiple reagents
two syringe pumps, sized 50µL and 2.5mL
316 stainless steel for maximum reagent compatibility, level sensing
2µL - 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)

- Standard reagent rack
- Reaction vessel
- Instrument bottles

27
standard micro wells, strips or plates
2L wash with low volume warning sensor
1L rinse (or second wash) with low volume warning sensor
2L waste bottle with full sensor
1L priming bottle
drain bottle (not supplied)

- EIA mode
- Thermal control
- Reagent cooling

Incubating, timing and temperature control
incubation timing is software controlled; set each row of 8 to time separately
or time the whole plate together
well, probe, and tubing; ambient or 37°C (other options also available)
RCA, Reagent Cooling Accessory (optional) cools 12° to 15°C below
ambient through peltier thermoelectric modules connected to an external
controller

- Wash head
- Programs

Washing
8-probe, automatic prime and rinse
create and run user programmable protocols, aspirate, dispense, soak, mix

- Optical design

Reading
reads bichromatic absorbance in 4 simultaneous channels,
user selected monochromatic or bichromatic results
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
-0.2 to 3.0A
± 1% or better, NIST traceable calibration

- Interference filters
- Linear Range
- Photometer Accuracy

- Format
- Supports
- Minimum system
- Recommended system

Software
CD-ROM and internet upgrades
Windows® 98, 2000, NT 4.0, or XP (Computer not supplied)
Pentium®II/233 MHz, 64 MB RAM, VGA monitor, 100MB free drive space
serial port or USB port with serial adapter
Pentium®II/333 Mhz, 128MB RAM, Windows® 98 or higher, CD drive, SVGA
monitor

- Calculation modes

absorbance, single standard, factor, fixed time kinetics, kinetics by multipoint,
kinetics by standard or factor, multipoint, linear regressions, log logit, polynomial,
cubic spline, 4-parameter, cutoff by absorbance or standard, and more
lamp, bottle volumes, filters, pressure, vacuum, mechanical function, and more
store control data, print Levey Jennings or QC range plots

- Self monitoring modes
- QC options

Certifications
NRTL Listed, CE Marked
Awareness Technology is certified under ISO 13485:2003

ChemWell® 2910

For the modern laboratory



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

ChemWell is a completely open system that is easy to program.

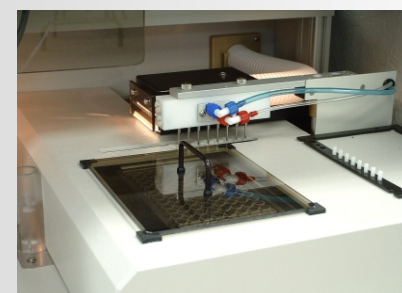
Set up assays, routine jobs, quality control, panels, even index calculations to suit your laboratory. A password system and log of changes protect your programs.

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 all essential for reliable results.

ChemWell can make pre-dilutions, however this is seldom necessary since a high level of precision is achieved even with a 2uL sample. Carry over 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.

ChemWell can process EIA at ambient temperature or 37C. An incubator is provided for biochemistry wells to assure precise kinetic reactions. The probe is also temperature-controlled to deliver 37C 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.



ChemWell® is designed and manufactured 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.

200 tests per hour
 No carry-over
 Liquid-sensing probe tip

8-well wash head
 level-sensing wash, rinse, and waste bottles
 LIS

STAT
 QC tracking self-monitoring reflex testing
 open system

Reaction volume < 250uL
 No custom disposables
 IAD filters

220 or 110 VAC input
 safety shields
 removable racks

easy to maintain
 makes automatic service reports
 low cost lamps

Edit standard curves
 self-monitoring mechanics and optics

ChemWell is truly two instruments in one.

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

ChemWell uses standard off-the shelf microwells for all reactions.

Uncoated microwells make low volume sample cups for biochemistry. They can also be washed for re-use. Performing biochemistry assays in microwells offers many advantages. Among them are increased throughput and decreased cost per test. ChemWell reads vertically using 4 optical channels and 8 wavelengths.

| Name/ID | Assay | Time Left | Absorbance | Concentration | Interpreta |
|------------|---------------|-----------|------------|---------------|------------|
| patient #1 | CHOLESTEROL | Complete | 0.1700 Abs | 207 mg/dL | High |
| patient #1 | GLUCOSE | Complete | 0.3250 Abs | 211 mg/dL | High |
| patient #1 | Triglycerides | Complete | 0.1098 Abs | 141.4 | High |
| patient #2 | CHOLESTEROL | Complete | 0.1280 Abs | 156 mg/dL | High |
| patient #2 | GLUCOSE | Complete | 0.1582 Abs | 103 mg/dL | |
| patient #2 | Triglycerides | Complete | 0.0726 Abs | 93.5 | |
| patient #3 | CHOLESTEROL | Complete | 0.1900 Abs | 232 mg/dL | High |
| patient #3 | GLUCOSE | Complete | 0.5189 Abs | 337 mg/dL | High |
| patient #3 | Triglycerides | Complete | 0.1979 Abs | 254.8 | High |
| patient #4 | CHOLESTEROL | Complete | 0.1739 Abs | 212 mg/dL | High |
| patient #4 | GLUCOSE | Complete | 0.3400 Abs | 220 mg/dL | High |
| patient #4 | Triglycerides | Complete | 0.0959 Abs | 123.5 | High |
| patient #5 | CHOLESTEROL | Complete | 0.1315 Abs | 160 mg/dL | High |
| patient #5 | GLUCOSE | Complete | 0.1585 Abs | 103 mg/dL | |
| patient #5 | Triglycerides | Complete | 0.0736 Abs | 94.8 | |
| patient #6 | CHOLESTEROL | Complete | 0.1866 Abs | 228 mg/dL | High |
| patient #6 | GLUCOSE | 0 min + | | | |
| patient #6 | Triglycerides | 1 min + | | | |
| patient #7 | CHOLESTEROL | Complete | 0.1776 Abs | 217 mg/dL | High |
| patient #7 | GLUCOSE | 0 min + | | | |
| patient #7 | Triglycerides | 1 min + | | | |
| patient #8 | CHOLESTEROL | Complete | 0.1289 Abs | 157 mg/dL | High |
| patient #8 | GLUCOSE | 0 min + | | | |
| patient #8 | Triglycerides | 1 min + | | | |

1. Choose either the chemistry or the EIA mode.
2. Load reagents, samples, and micro-wells.
3. Select assays and reports you want to see.

THE REST IS AUTOMATIC

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For the modern laboratory