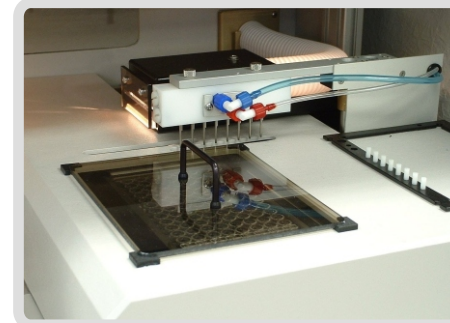


ChemWell® 2910 Technical Specifications

General	
• Typical throughput	up to 200 endpoint reactions per hour, up to 170 kinetic reactions per hour
• Typical reaction volume	200µL or less
• Dimensions	36.25"(92.1cm) width, 18.75"(47.6cm) height, 21.5"(54.6cm) depth, Approximate weight 80 lbs (36Kg)
Reagent and Sampling Dispensing	
• Capabilities	dilution, pre-dilution, dispensing single or multiple reagents
• Pumps	two syringe pumps, sized 50µL and 2.5mL
• Probes	316 stainless steel for maximum reagent compatibility, level sensing
• Min. and Max. Volume	2µL - 1.95mL
• Precision for volumes <5µL	<2.5% CV
• Precision for volumes >5µL	<1% CV
• Maximum number of specimens	96, (including calibrators and controls)
• Maximum number of reagents	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	27
• Reaction vessel	standard micro wells, strips or plates
• Instrument bottles	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)
Incubating, timing and temperature control	
• EIA mode	incubation timing is software controlled; set each row of 8 to time separately or time the whole plate together
• Thermal control	well, probe, and tubing; ambient or 37°C (other options also available)
• Reagent cooling	RCA, Reagent Cooling Accessory (optional) cools 12° to 15°C below ambient through peltier thermoelectric modules connected to an external controller
Washing	
• Wash head	8-probe, automatic prime and rinse
• Programs	create and run user programmable protocols, aspirate, dispense, soak, mix
Reading	
• Optical design	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
• Interference filters	-0.2 to 3.0A
• Linear Range	± 1% or better, NIST traceable calibration
• Photometer Accuracy	
Software	
• Format	CD-ROM and internet upgrades
• Supports	Windows® 98, 2000, NT 4.0, or XP (Computer not supplied)
• Minimum system	Pentium®II/233 MHz, 64 MB RAM, VGA monitor, 100MB free drive space serial port or USB port with serial adapter
• Recommended system	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
• Self monitoring modes	lamp, bottle volumes, filters, pressure, vacuum, mechanical function, and more
• QC options	store control data, print Levey Jennings or QC range plots
Certifications	
NRTL Listed, CE Marked Awareness Technology is certified under ISO 13485:2003	

ChemWell® 2910 Biochemistry and EIA

combined in
one modern
system



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.

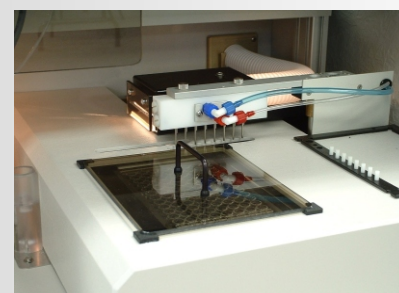
Set up assays, routine jobs, quality control, panels, even index calculations to suit your laboratory. A password system and log of changes protect your programs.

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.



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 Chem Well 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.

ChemWell Manager 6.0 - [Connected]

ChemWell Result DB Patient DB Settings Help

Name/ID= patient #3 Assay= [Current Step = 00805 # Read]

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 +			

Rack2: 1 2 3 4 5 6 7 8

Plate: H G F E D C B A

Buttons: Select all, Accept, Rerun, Delete

Ready

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

ChemWell® 2910

For the modern laboratory

OurTech Plus
242-8081492
info@ourtechplus.com



Connect With Us

