



# INTRODUCING THE VINTESSENTIAL CHEMWELL 2910 DISCRETE ANALYSER.

**THE COMPLETELY AUTOMATIC WAY TO PERFORM  
UP TO 200 WINE ANALYSES IN AN HOUR.**

Built in the US and the popular choice for American wineries, the Vintessential ChemWell 2910 discrete analyser has been re-programmed for dedicated use with Vintessential Test Kits: the only ones made exclusively for the wine industry in our own laboratories.



# VINTESSENTIAL CHEMWELL 2910 DISCRETE ANALYSER TECHNICAL SPECIFICATIONS.

## GENERAL

Typical throughput per hour	Up to 200 endpoint reactions; up to 170 kinetic reactions
Typical reaction volume	250 µL or less
Power requirement	100 V – 240 V AC, 160 W, 50 – 60 Hz (universal input, auto-sensing)
Dimensions	36.25" (92.1 cm) width; 18.75" (47.6 cm) height; 21.5" (54.6 cm) depth; 80 lb (36 kg) approximate weight

## REAGENT & SAMPLE DISPENSING

Capabilities	Dilution; pre-dilution; dispensation of single or multiple reagents
Pumps	Two syringe pumps, sized 50 µL and 2.5 mL
Probes	Level-sensing and made from 316 stainless steel for maximum reagent compatibility
Minimum/Maximum volume	2 µL–1.95 mL
Volume precision <5 µL	<2.5% CV
Volume precision >5 µL	<1% CV
Maximum specimens	96 including calibrators and controls
Standard reagent rack	27 positions
Reaction vessel	Standard microwells, strips or plates
Instrument bottles	2 L wash with low-volume warning sensor; 1 L rinse (or second wash) with low-volume warning sensor; 2 L waste bottle with full sensor; 1 L priming bottle; drain bottle not supplied

## INCUBATING, TIMING & TEMPERATURE CONTROL

Thermal control	Well, probe and tubing; ambient or 37°C (other options available)
Reagent cooling	An optional accessory cools 12–15°C below ambient through Peltier thermoelectric modules connected to an external controller

## WASHING

Wash head	8-probe, automatic prime and rinse
Programs	aspirate, dispense, soak and mix wash protocols are user-programmable

## READING

Optical design	Reads bichromatic absorbance in 4 channels; user-selected monochromatic or bichromatic results; 8-position filter wheel (340, 405, 450, 505, 545, 600, 630, 700 nm or custom)
Interference filters	Long-life, hard-coat, ion-assisted deposition; 10 nm typical half bandpass
Linear range	0.00 to 3.0 A
Photometer accuracy	± 1% or better, NIST-traceable calibration

## SOFTWARE

Format	CD-ROM with Internet upgrades
Support	Windows® XP, Vista or 7 with CD drive, serial- or USB-port (computer not supplied)
Methods	Vintessential Test Kit methods are pre-programmed, including reagent and calibrator definitions and test flows
Calculation modes	Absorbance; single standard; factor; fixed-time kinetics; kinetics by multipoint; kinetics by standard or factor; multipoint; linear regressions; polynomial; cubic spline; 4-parameter; cut-off by absorbance or standard; et al
Self-monitoring modes	Lamp; bottle volumes; filters; pressure; vacuum; mechanical function; et al
QC options	Store control data; print Levey-Jennings or QC-range plots

## CERTIFICATIONS

NRTL-listed, CE-marked and certified under ISO 13485:2003. Vintessential Laboratories reserves the right to change specifications without notice through continuous design improvement.