



INTRODUCING THE VINTESSENTIAL CHEMWELL-T ANALYSER.

DELIVER AUTOMATED RESULTS WITH CONFIDENCE.

The Vintessential ChemWell-T is a compact and efficient automated chemistry analyser, offering the oenologist reliable performance and accurate results. Built in the US, it has been re-programmed for dedicated use with Vintessential Test Kits: the only ones made in our own laboratories exclusively for the wine industry.



VINTESSENTIAL CHEMWELL-T ANALYSER TECHNICAL SPECIFICATIONS.

GENERAL

Maximum throughput per hour	100 endpoint tests
Minimum reaction volume	250 µL or less
Maximum reaction volume	700 µL
Dimensions	53 cm width; 40 cm height; 50 cm depth; <15 kg approximate weight

REAGENT & SAMPLE DISPENSING

Capabilities	Dilution; pre-dilution; dispensation of single or multiple reagents
Maximum number of reagents	Six 15-mL bottles; six 8-mL bottles; 16 4-mL bottles
Minimum/ maximum volume	2 µL–400 µL
Maximum specimens	Typically, 20 including calibrators and controls on the standard integrated rack; 16 sample spaces are available with the optional barcode rack
Reaction vessel	5 per cuvette; 40 total on board
Instrument bottles	0.25 L priming bottle; optional 0.5 L bottle available

INCUBATING, TIMING & TEMPERATURE CONTROL

Thermal control	Cuvette carrier 37°C or ambient room temperature
Reagent cooling	Refrigerated reagent rack cools 8 to 12°C below ambient through Peltier thermoelectric modules

READING

Optical design	Reads absorbance in one channel; user-selected monochromatic or bichromatic results
Filter wheel	340, 405, 505, 545, 580, 630 nm
Light source	Halogen lamp
Linear range	0.00 to 3.0 A
Photometer accuracy	± (1% of the reading +0.005 A from 0 to 1.0 A); ± (2% of the reading +0.005 A from 1.0 to 3.0 A); NIST-traceable calibration

SOFTWARE

Upgrade format	USB and Internet
Operating systems	Microsoft Windows© version 7.8.10
Methods	Vintessential Test Kit methods are pre-programmed, including reagent and calibrator definitions and test flows
Calculation modes	Single standard; factor; fixed-time kinetics; kinetics by standard or factor; multi-calibrator point-to-point; linear regressions; cubic spline; 4-parameter logistic; percent absorbance
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; calculate SDs

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.

Available from:

