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ChemWell® -VET Veterinary Analyzer

Deliver Results With Confidence

Fully Automated Biochemistry / Turbidimetric Analyzer

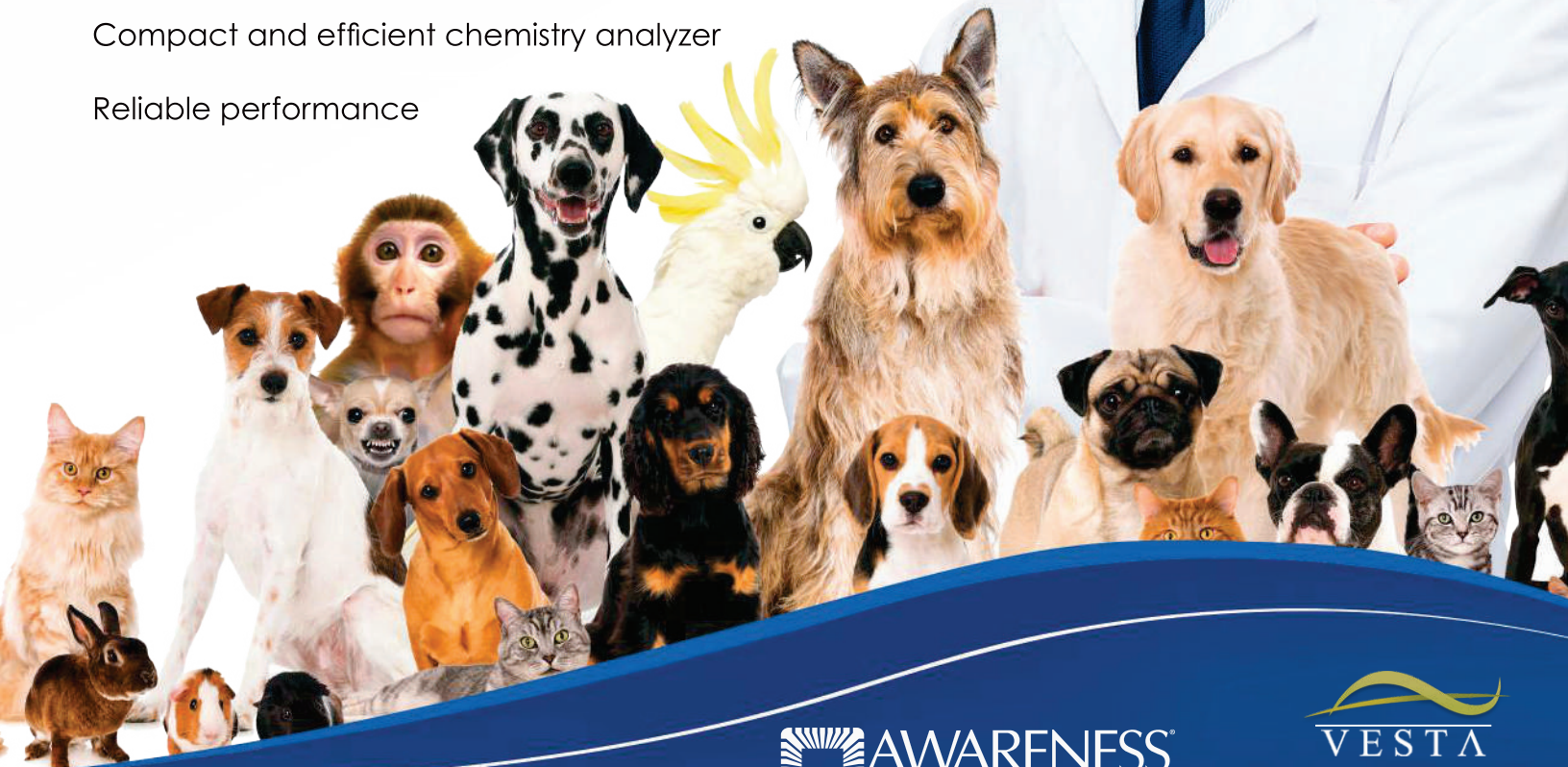


Suitable for testing a variety of species

Accurate results, providing confidence to Veterinarians

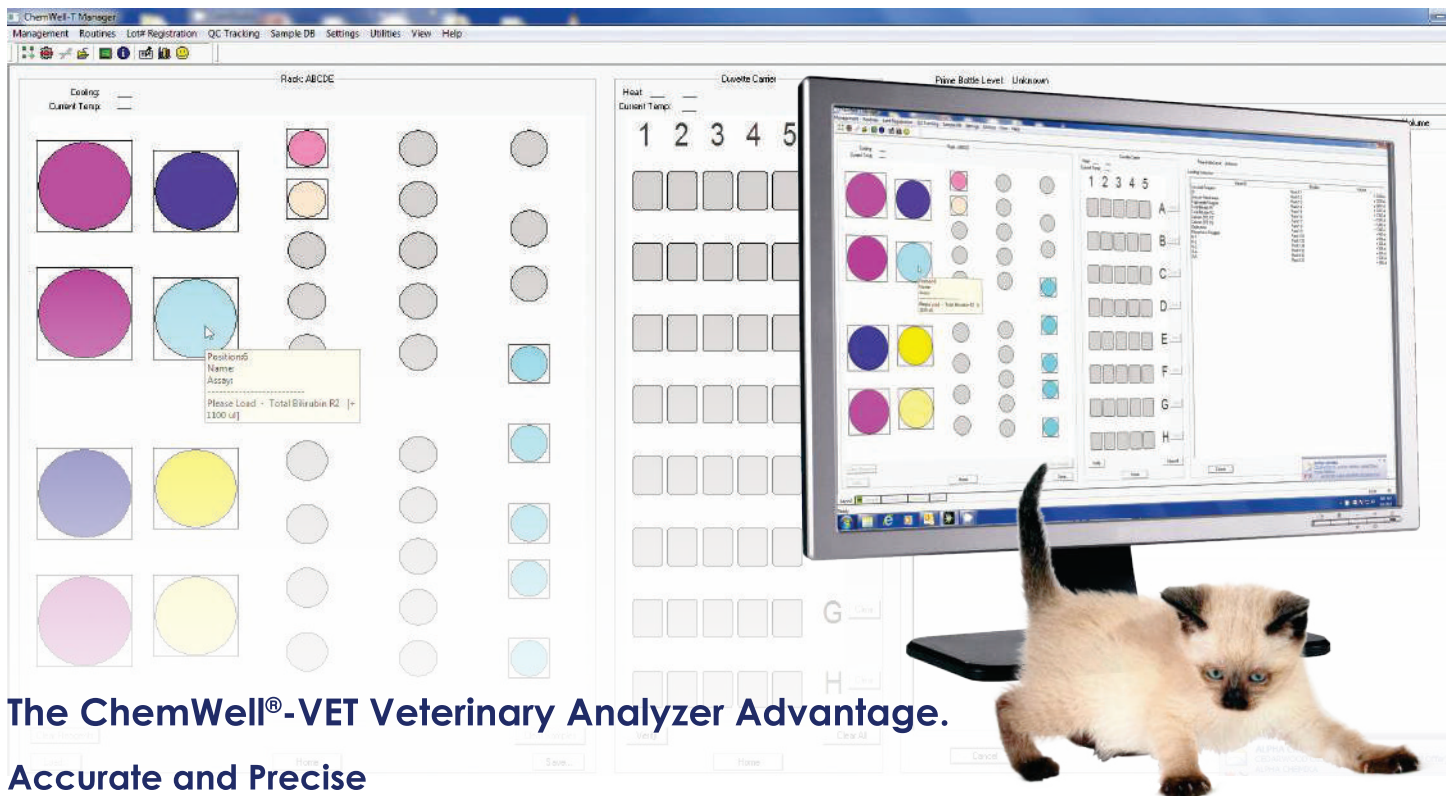
Compact and efficient chemistry analyzer

Reliable performance



 **AWARENESS**
TECHNOLOGY, INC.


VESTA
Laboratory Equipment
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The ChemWell®-VET Veterinary Analyzer Advantage.

Accurate and Precise

Above all other considerations when you are buying a biochemistry analyzer for veterinary use, you want results you can always trust. ChemWell®-VET's reliable optics and precision pipetting provide consistent dependable performance for your peace of mind at a lower operating expense resulting in a low cost per test.

Flexible

ChemWell®-VET is a computer-dependent system preloaded with 36 programs to conveniently perform routine and most specialty chemistries. Normal ranges are stored for a large variety of species. In addition, ChemWell®-VET's comprehensive software allows users to expand

Robust

Materials and workmanship are specified and tested to assure product quality and longevity. Also, to help assure quality performance, ChemWell®-VET has many instructional prompts, error messages, and features that track instrument QC and service needs.

Easy

ChemWell®-VET's intuitive software visually mirrors what takes place on the analyzer. This facilitates programming assays, daily operation, and use of the many additional optional features that make ChemWell®-VET both powerful and convenient.



ChemWell®-VET Automation, with all its advantages, optimized for veterinary labs

Capabilities Overview

ChemWell®-VET is designed to perform kinetic and endpoint assays with single or multiple reagent kits. It includes patient/animal database software (or accepts a work-list via LIS). Once you enter an order and load the reagents and samples, the instrument processes all the tests and presents results for reporting, storing, or electronic export. A variety of assay calibration equations are available. Features include random access, continual loading, stat capability, on-board reagent cooling, ISE module ready, acceptance of controls anywhere any time, and automatic application of user-entered QC criteria and test interpretations.

Quality Control

- Registry of controls by lot number and expiration date
- Automatic Levey-Jennings tracking or QC plots based on acceptance ranges
- Many options for specific test QC such as limits for blank absorbance, minimum or maximum starting absorbance, and reflex testing for out-of-range kinetics

Rack Configuration

ChemWell®-VET comes with a integrated reagent and sample rack. The rack is insulated and includes a cover to help regulate temperature, in conjunction with the built in peltier cooler this design helps to maximize the life of the reagent during extended testing periods. The standard instrument does not include a barcode scanner however, this is an available option. (Please specify the need for barcode scanning when placing your order, barcode scanning is only available for the samples and requires a modified rack to accommodate the barcodes.)

Reaction Cuvette and Carrier

ChemWell®-VET's 37° C incubated cuvette carrier holds 40 tests as eight disposable strips of 5 wells each. The carrier automatically aligns wells for pipetting, mixing, and reading.

ChemWell® Management Software

ChemWell® software has two components:
Assay Editor - where test programs are created and edited,
ChemWell® Manager where patient/animal data is stored, work-lists are generated and all the operations are controlled.

Five tabs walk the user through test set up

SAMPLE - select or enter sample identifications and choose from the test menu which tests to run for each, select replicates if desired and indicate Stat samples

CALIBRATION - use a stored curve or make a new one. For multi-point assays there are many options to choose from including curve editing ability

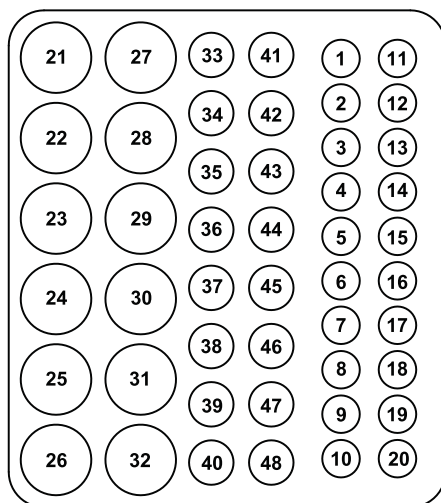
LAYOUT - verify proper placement of reagents and samples using colorful graphic references and familiar tools such as drag and drop

TEST - monitor work-in-progress and completed results

REPORT - create reports by assay, by patient/animal, by date range and more



Insulated reagent and sample rack



Integrated rack layout
21-48 reagents and controls, 1-20 sample tubes



37° C Heated 8x5
Cuvette Carrier



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Maximum throughput	100 test per hour, not including optional ISE
Min. and Max. volume	2 µL - 388 µL
Rack for reagents and samples	Integrated rack accommodates 20 12 ml sample tubes and 48 reagents in 15 ml and 5 ml reagent bottles Optional segmented rack is also available which allows for removable sectors which may be mixed and matched for more flexibility Sector A holds four 30 ml reagent bottles Sector B holds four 15 ml reagent bottles Sector C holds four 5 ml vials and four 12 mm x 75mm tubes or 2 ml skirted conical tubes Sector D holds ten 12 mm x 75mm tubes Sector E holds eight 13 mm x 100 mm tubes or 12 mm x 75 mm tubes
Number of specimens	Typically 20 including calibrators and controls but variable depending on rack sectors selected
Reaction vessel	8 cuvette strips, 5 tests per strip, total of 40 reactions on board
Minimum reaction volume:	240 µl
Maximum reaction volume	700 µl
Instrument bottles	10 reagent bottles
Thermal control	Cuvette Carrier 37° C or ambient room temperature Refrigerated Reagent Rack cools 8° to 12° C below ambient through Peltier thermoelectric modules
Optical design	Single channel photometer, NIST traceable absorbance calibration
Filter wheel	340, 405, 505, 545, 580, 630 nm
Light Source	Tungsten Halogen Lamp
Linear range	0.0 to 3.0A
Photometric 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)
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 and percent absorbance
QC Options	Store control data, print Levey-Jennings or QC range plots, calculate SDs
Upgrade Format	USB and Internet upgrades
Operating Systems	Microsoft Windows®
Dimensions & Weight	53 cm Wide x 50 cm Deep x 40 cm High Approximate weight < 15 kg (37 lbs)
Optional barcode scanner	Barcode scanner available, allowing for rapid entry of sample data using code 39 barcodes

ISO 13485:2016



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ChemWell®-VET Analyzer Reagents

AVAILABLE KITS	PART NUMBER	# TESTS
ALBUMIN (BCG)	V244-12 (C244-01)	240
ALKALINE PHOSPHATASE (ALP)	V174 (C172)	160
ALANINE AMINOTRANSFERASE (ALT)	V164-01A (C164-0A, C164-0B)	136
AMYLASE	V334-12 (C332-01, C334-01)	288
ASPARTATE AMINOTRANSFERASE (AST)	V154-0A (C154-0A, C154-0B)	136
B-HYDROXYBUTYRATE (B-HBA)	V444-0B (C444-0A)	100
BILE ACIDS (LIQUID) REAGENTS (COLORIMETRIC)	V404-0F (C404 Series)	24
BILE ACIDS II ENZYME CYCLING METHOD	V562-0F (C562 Series)	24
BILIRUBIN DIRECT (WITH BLANK)	V304-0B (C304 Series)	310
BILIRUBIN TOTAL	V314-16D (C314-0A)	120
BROMIDE (DIRECT METHOD)	V424-0C (C424-01, C424-02)	96
CALCIUM ARSENAZO	V294-12 (C294-06)	240
CARBON DIOXIDE	V206-12 (C206 Series)	240
CHLORIDE (340nm)	V194-0A (C195-0A)	120
CHOLESTEROL	V104-12	240
COPPER METHOD	V655-12	144
CREATINE KINASE (CK)	V184-12 (C184-0A, C184-0B)	180
CREATININE	V320-24 (C324-0A)	240

AVAILABLE KITS	PART NUMBER	# TESTS
ETHYLENE GLYCOL	C504-0A	80
FRUCTOSAMINE (umol/L)	V412-12 (C412-0A, C414-01, C414-02)	144
Y-GLUTAMYL TRANSFERASE (Y-GT)	V314-0A	156
GLUCOSE HEXOKINASE	C124-12 (C124-06, C124-07)	240
GLUTAMATE DEHYDROGENASE (GLDH)	V550-12 (C550 Series)	72
INORGANIC PHOSPHORUS (IP)	V274-12	240
IRON TOTAL	V288-0B (V284/C288-Series)	72
LACTATE (LACTIC ACID)	V452-12 (C454-01)	120
LACTATE DEHYDROGENASE (LD)	V144-0C (C144-0A, C144-0B)	151
LIPASE	V340-0B	100
MAGNESIUM (XYLIDYL BLUE)	V355-12 (C355-01)	240
NONESTERIFIED FATTY ACIDS (NEFA)	V514-0B (C514-0A)	120
PLASMA FREE HEMOGLOBIN (RFH)	V464-0B (C464-0A, C462-0A)	100
SORBITOL DEHYDROGENASE (SDH)	C434-0A (C432-0B, C434-0C)	100
TOTAL PROTEIN	V254-12 (C254-01)	240
TRIGLYCERIDES GPO TRINDER	V116-12 (C116-0A)	240
BLOOD UREA NITROGEN (BUN)	V264-12 (C264-Series)	240
URIC ACID - DUAL	V134-12	240