









## **BWB WINE**

# Highly accurate and cost effective analysis, in your lab and on your terms

With our new "Light Pipe Technology" and multiple calcium detectors systems we are now able to meet the rigid standards of calcium detection in wine as this additive is blended in and then removed out in processing. Of course our potassium and Sodium channels are also specified for this important industry as well.

Used by the more discriminating wine producers in the world, the BWB WINE flame photometer not only offers a superior analytical instrument for the industry but is also a vital tool for optimising product quality through early detection and measurement of these key elements.



### + FEATURES

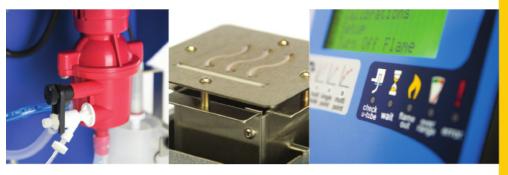
• SIMULTANEOUS DETECTION AND DISPLAY OF ALL 4 ATOMS OF INTEREST

- INTUITIVE USER INTERFACE FOR TRUE EASE OF USE
- DISPLAY PROMPTS STEP BY STEP OPERATION

- OPERATOR INDEPENDENT DETERMINATION OF RESULTS

- INTEGRATED PRINTER USES READILY AVAILABLE PAPER
- IQ, OQ, PQ WEB-BASED CERTIFICATION
- CAN BE USED WITH EITHER THE BWB COLLECTION CUP FEATURE OR OUR AFHS AUTOMATED SAMPLE

Just Add Gas













## **Technical Data**

Just Add Gas

Sample rate

3.5 - 5ml/min

**Tubing materials** 

Silicone and Tygon®

Required desk space for Instrument

50cm (H) x 45cm (W) x 45cm (D)\*

For Safety reasons the Flame photometer requires 1m of unobstructed space above to allow dissipation of heat from the chimney.

Instrument size

Wine Flame Photometer 51cm (H) x 38cm (W) x 41cm (D) (20in x 14in x 16in)

Shipping

62cm (H) x 55cm (W) x 47cm (D) (24in x 22in x 19in)

Weight

Wine Flame Photometer - 15.3kg

Shipping - 25kg

Optimal range Single point calibration

Na 0.1 - 60ppm K 0.05 - 100ppm

Ca 1.0 - 100ppm

Multi Point Calibration

Na 0.1 - 1000ppm

K 0.05 - 1000ppm Ca 1.0 - 1000ppm

Reproducibility

<1% Coefficient of variability for 20 consecutive samples over ten minutes at concentrations of

100ppm or less. (After instrument stabilisation).

Specificity

Na/K/Li = <0.5% to each other when equal in concentration at <100ppm

Limit of detection (LOD) and limit of quantification (LOQ) displayed

LOD LOQ Na - 0.03ppm Na - 0.1ppm K - 0.02ppm K - 0.05ppm Ca - 0.3ppm Ca - 1ppm

Time to stability

Less than 15 seconds after sample is introduced into the flame

lons measured

Simultaneous measurement of Na. K. and Ca

Interfaces

USB

0-1 volt output (based on sample concentration

linked to element of users choice)

Optional 4-20mA output in place of the above

Optional integrated printer

.CSV and .PDF generated reports and files via

FP-PC software

Recommended minimum warm up time based on ambient temperature

21°C - 40 minutes

Power requirements

100V - 250V AC at 50 or 60Hz automatically selecting

Fuel requirement

Propane, Butane or Natural Gas\* regulated to 19Bar. Flow rate of 0.4I/min \*with modifications. BWB Technologies recommends either Propane or Butane for optimum results.

Readout

LCD, four line, alpha numeric, back lit.

#### + WHAT'S IN THE BOX'

- PC Leads USB and RS232
- all regions (4th option for China) Certificates of analysis for all
- · Gas Hose
- Aspiration Kit
- Manuals covering all aspects of the Wine FP
- Quick Start guides
- Selection of 3 Power cables to suit Warranty Registration Form
  - provided Fluids
  - provided Fluids • The FP-PC Software installation
- 1L of BWB recommended
- cleaning solution
- 150ml calibration fluids for all 3 elements at 10,000ppm.
- Material Safety Data Sheets for all
  100ml conical flask with screw lid
  - 100 disposable sample cups
  - 1L of De-Ionised water
- · 2m of waste t
- · Set of spare f
- 10 x 10ml pipe
- 10 x 1ml pipet





#### www.bwbtech.com

Manufactured in Newbury, County of Berkshire, England. Registered office: BWB Technologies UK Ltd. 3 Warners Mill Silks Way Braintree, Essex CM7 3GB England