











Just Add Gas

# **BWB LI**

# The most accurate lithium flame photometer ever manufactured!

BWB Flame Photometers have always been renowned for a highly stable and accurate lithium measurement. This winning formula has been developed further with specific adaptation and optimisation of the proprietary BWB optical array detection systems.

A well earned thank you to Dr. Richard Roman of the University of Mississippi for his invaluable assistance on this Lithium specific FES.

The BWB Li uses multiple lithium detection channels. This latest configuration has been exclusively designed to specifications laid out though consultation with our customers.

The BWB Li is the first of it's kind. Engineered with a single purpose, the BWB Li is the most accurate and advanced lithium flame photometer (FES) ever manufactured!



## + FEATURES

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- "IRS" (INTERNAL REFERENCE STANDARD) AVAILABLE

- DISPLAY PROMPTS STEP BY STEP OPERATION





**Technical Data** 

Required desk space for Instrument

For Safety reasons the Flame photometer requires 1m

of unobstructed space above to allow dissination of heat

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

51cm (H) x 38cm (W) x 41cm (D)

62cm (H) x 55cm (W) x 47cm (D)

XP Flame Photometer - 15.3kg

Sample rate

3.5 - 5ml/min

from the chimney.

Instrument size

(20in x 14in x 16in)

(24in x 22in x 19in)

Shipping - 25kg

Weight

XP Flame Photometer

**Tubing materials** 

Silicone and Tygon®

#### Optimal range

Single point calibration Li 0.05 - 50ppm

Multi Point Calibration Li 0.05 - 1000ppm

#### Reproducibility

<1% Coefficient of variability for 20 consecutive samples over ten minutes at concentrations of 100ppm or less. (After instrument stabilisation).

#### Chemical Interference

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

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

LOQ Li - 0.02ppm Li - 0.05ppm

Less than 15 seconds after sample is introduced into the flame

### Ions Measured

4 independent Li channels, each providing up to 14 points of calibration

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

### Readout

LCD, four line, alpha numeric, back lit.

Propane or Butane for optimum results.

### + WHAT'S IN THE BOX'

- PC Leads USB and RS232
- Selection of 3 Power cables to suit Warranty Registration Form
- Gas Hose
- Aspiration Kit
- Manuals covering all aspects of the Lithium FP
- Quick Start guides
- all regions (4th option for China) Certificates of analysis for all
  - provided Fluids
  - · Material Safety Data Sheets for all provided Fluids
  - The FP-PC Software
- 1L of BWB recommended cleaning solution
- 3x 150ml calibration fluids at 10.000ppm
- 100ml conical flask with screw lid
- 100 disposable sample cups
- 1L of De-Ionised water
- 2m of waste tube Set of spare fuses
- 10 x 10ml pipettes
- 10 x 1ml pipettes







## www.bwbtech.com

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