



Sherwood 410 Classic Flame Photometer



Directly measures alkali and alkaline earth metals sodium (Na), potassium (K), lithium (Li), calcium (Ca), barium (Ba), caesium (Cs), rubidium (Rb) and strontium (Sr) by means of a low temperature flame using propane, butane or natural gas.

- Digital readout
- Auto ignition
- Fail-safe flame monitor and automatic air regulation
- Gas and air cut-off safety feature
- Recorder output
- Requires a source of clean dry pulse-free compressed air at a pressure of 12 - 15psi

Specifications	
Sensitivity	To display minimum of 100 units, Na <0.5ppm, K <0.5ppm, Li 5ppm, Ca 5ppm, Ba 200ppm
Specificity	For Na, K, Li interference is less than 0.5% of the concentration of Na, K, Li, Ca or Ba, equal to the concentration under analysis
Linearity	Better than 2% mid range with Na = 3ppm, K = 3ppm, or Li = 5ppm
Drift	Zero drift better than 2% per hour when calibrated with Na = 10ppm (measured after 30 mins warm up)
Reproducibility	<1% CV from the same bulk sample for 20 determinations at Na and K = 10ppm
Limit of Detection	<20ppb Na and K

Code	Alt Ref	Model	Dims, l x h x d, mm	Price
FLA2000	47541200(L)	410 classic	390 x 510 x 345	£4972.00

Accessories

Code	Description	Price
FLA2014	Air compressor (220/240v)	£926.00
FLA2016	Natural gas regulator kit	£257.00

Reagents

Supplied in packs of 6 x 100mL

Code	Description	Price
FLA2030	Sodium, 1000ppm	£68.00
FLA2034	Lithium, 1000ppm	£68.00



Sherwood 420 Dual Channel Flame Photometers



Developed from the single channel model 410 with the objective of improving productivity and analytical performance of the laboratory when measuring sodium and potassium. The biggest improvement is dual channel operation, allowing both sodium and potassium to be calibrated, measured and displayed simultaneously.

- Easy to use and maintain
- Stable flame design
- Auto flame optimisation
- Internal standard referencing
- On board firmware for significant improvement in sample throughput and precision
- Reduced setup and calibration time due to automatic ignition and optimisation of the flame conditions
- Lithium internal standard signal reduces fluctuation in flame conditions and dilution errors
- Operation in continuous or peak mode

Code	Alt Ref	Type	Price
FLA0022	47542000	Clinical	£8099.00
FLA0024	47542100	Industrial	£8099.00