

# FLAME PHOTOMETER

## Models PFP7 & PFP7/C



### Features

- Na & K Filters as standard
- Ca, Ba and Li Filters as optional accessories
- Electronic Flame Failure
- Fine and Coarse Sensitivity Controls
- Operates on Propane, Butane, Natural Gas or L.P.G. supplies
- Recorder Output
- Easily Maintained
- Economically Priced

### Equipment Details

The Models PFP7 and PFP7/C are low temperature, single channel Flame Photometers, designed for the routine determinations of Sodium (Na) and Potassium (K). Additional filters are available for the measurement of Lithium (Li), Barium (Ba) and Calcium (Ca).

Both instruments are fitted with automatic flame failure detection for user safety, making them ideal for use in clinical, industrial and educational applications.

The Model PFP7/C is designed specifically for use in Clinical applications. The in-built lineariser circuitry enables readings of both Sodium and Potassium, at the normal clinical serum concentrations, to be directly displayed in mmol/l. Serum samples need to be diluted 200:1 or 100:1 prior to presentation to the flame photometer.

To enable this to be carried out efficiently Burkard Scientific are able to offer the Model 8225 Dilutor.

### Technical Specifications

Model	PFP7	PFP7/C
Ranges	-	120-160 mmol/l Na (linearised)
	-	0-10.0 mmol/l K
Limits of Detection	Na < 0.2ppm	-
	K < 0.2ppm	-
	Li < 0.25ppm	Li < 0.25ppm
	Ca < 15ppm	Ca < 15ppm
	Ba < 30ppm	Ba < 30ppm

### Common Specifications

Reproducibility	<1% / Coefficient of Variation for 20 consecutive samples using 10ppm Na set to read 50
Linearity	Better than 2% when concentration of 3ppm Na and K and 5ppm Li are set to read 100
Specificity	Interference from Na, K and Li equal in concentration to test element will be >0.5%
Recorder o/p	Nominal 1.00V for a reading of 100.0
Services	Electrical: 90-125V or 190-250V @ 50/60Hz Air: Moisture and oil free 6 litre/minute @ 1Kg/cm <sup>2</sup> (14psi) Fuel: Propane, Butane, Natural Gas or L.P.G.
Size:	420 x 360 x 300mm
Weight:	8Kgs

### Ordering Information

#### Flame Photometer

BS00244 Model PFP7  
BS02513 Model PFP7/C (Clinical version)

Both Models are supplied with Na & K filters, connecting hoses and clips, compressor plug, drain trap, fuses, mains lead and combined Instruction/Service manual.

#### Air Compressors

BS02613 Model 8515 (220V 50Hz)  
BS02514 Model 8516 (110V 60Hz)

#### Gas Regulators

BS02614 Butane  
BS02515 Propane  
BS02615 Natural Gas

#### Additional Filters

BS02522 Calcium Filter  
BS02520 Lithium Filter  
BS02521 Barium Filter  
BS02519 Potassium Filter  
BS02518 Sodium Filter

#### Optional Accessories

BS02527 Model 8225 Dilutor  
BS02516 Water Separator  
BS02526 Water Separator (large)  
BS02617 Dust Cover  
BS02625 Cleaning Solution (1 litre)  
BS02623 Minor Spares Kit  
BS02324 Major Spares Kit

#### Reagents - Clinical Standards

BS02328 1.00mmol/l Li (500ml)  
BS02329 100mmol/l Na/K (500ml)  
BS02330 140mmol/l Na 5mmol/l K (500ml)  
BS02331 120mmol/l Na 2mmol/l K (500ml)  
BS02332 160mmol/l Na 8mmol/l K (500ml)  
BS02333 160mmol/l Na 80mmol/l K (500ml)

#### Reagents - Industrial Standards

BS02618 1000ppm K (500ml)  
BS02619 1000ppm Li (500ml)  
BS02620 3000ppm Ba (500ml)  
BS02621 1000ppm Na (500ml)  
BS02622 1000ppm Ca (500ml)

Note: It is recommended these filters be factory fitted at the time of ordering. Please Specify.

Note: The instrument will only operate with the correct type of air compressor and gas regulator. Please specify.

