



FP/25102

## Flame photometers

### Flame photometer

The Jenway Model PFP7 is a low temperature, single channel flame photometer, designed for the routine determinations of Sodium (Na), Potassium (K), Lithium (Li), Barium (Ba) and Calcium (Ca) supplied with 5 filters.

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

The clinical Model PFP7/C is designed for routine determinations of sodium (Na), Potassium (K) and Lithium (Li) supplied with 3 filters.

- Electronic flame failure detection
- Fine and coarse sensitivity controls
- Operates on Propane, Butane, Natural gas or L.P.G. supplies with suitable regulator
- Recorder output
- Economically priced
- Easily maintained

Technical Specifications	PFP7	PFP7/C
Ranges:	0-199.9ppm	120-160mmol/l Na (linearised) 0-10.0mmol/l K
Limits of detection:	Na ≤ 0.2ppm K ≤ 0.2ppm Li ≤ 0.25ppm Ca ≤ 15ppm Ba ≤ 30ppm	Na ≤ 0.2ppm K ≤ 0.2ppm Li ≤ 0.25ppm
<b>Common specifications</b>		
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	
<b>Services:</b>		
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:	8kg	

This equipment will only operate with the correct type of air compressor and gas regulator, as specified.

Cat. No.	Description	Cat. No.	Description
FP/25102	Flame photometer model PFP7	<b>Reagents – Industrial standards</b>	
FP/25104	Flame photometer model PFP7/C	FP/21014	1000ppm K (500ml)
<b>Optional accessories</b>		FP/21016	1000ppm Li (500ml)
FP/25006	Air compressor (220V 50Hz)	FP/21018	3000ppm Ba (500ml)
FP/25008	Air compressor (110V 60Hz)	FP/21020	1000ppm Na (500ml)
FP/25018	Butane regulator	FP/21022	1000ppm Ca (500ml)
FP/25020	Propane regulator	<b>Reagents – Clinical standards</b>	
FP/25022	Natural gas regulator	FP/21002	1.00mmol/l Li (500ml)
FP/25024	Water separator	FP/21004	100mmol/l Na/K (500ml)
FP/25026	Water separator large	FP/21006	140mmol/l Na 5mmol/l K (500ml)
FP/25028	Dust cover	FP/21008	120mmol/l Na 2mmol/l K (500ml)
FP/25030	Cleaning solution (1 litre)	FP/21010	160mmol/l Na 8mmol/l K (500ml)
FP/25032	Minor spares kit	FP/21012	160mmol/l Na 80mmol/l K (500ml)
FP/25034	Major spares kit		



FP/35002

### Model 360 Single Channel Budget Flame Photometer



Five element (Na, K, Li, Ca, Ba) Single channel Flame Photometer with auto flame optimisation technology. Supplied with built in gas regulator for specified supply.

### Model 410 Single Channel Flame Photometer

Directly measures Alkali and Alkaline Earth metals Sodium (Na), Potassium (K) and Calcium (Ca) by means of a low temperature flame using propane, butane or Natural gas.

Additional filters for Caesium (Cs), Rubidium (Rb), Strontium (Sr) and Lithium (Li) are available.

Available in three formats:

Classic – Fitted with Na, K and Ca filters

Industrial – Fitted with Na, K and Ca filters and a digital interface/linearisation module

Clinical – Fitted with Na, K and Li filters and a digital interface/linearisation module

The Classic model may be upgraded by the addition of the digital interface (Fitted as standard to Industrial and Clinical models) allowing connection to a serial printer or computer for result collection.