

Flame Photometers

- Industrial version supplied with Na, K, Li, Ba & Ca filters
- Clinical version supplied with Na, K & Li filters
- Low temperature, single channel
- Electronic ignition



- Flame failure safety system
- Operates on propane, butane, natural gas or L.P.G. supplies
- Fine & coarse sensitivity controls

The Jenway Models PFP7 and PFP7/C are low temperature, single channel flame photometers, designed for the routine determinations of Sodium (Na), Potassium (K), Calcium (Ca), Barium (Ba) and Lithium (Li).

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



The Model PFP7/C is specifically designed for use in clinical applications. The in-built lineariser circuitry enables readings of both Na and K, at the normal clinical serum concentrations, to be displayed directly in mmol/l. Serum samples must be diluted 200:1 or 100:1 prior to presentation to the flame photometer. Jenway are able to offer the Series 7 Diluter to enable this to be carried out efficiently and accurately.

Technical Specifications

Model	PFP7 (Industrial)	PFP7/C (Clinical)
Ranges	0-199.9	120-160mmol/l Na (linearised) 0-10.0mmol/lK
Limits of Detection	Na \leq 0.2ppm K \leq 0.2ppm Li \leq 0.25ppm Ca \leq 15ppm Ba \leq 30ppm	– – Li \leq 0.25ppm Ca \leq 15ppm Ba \leq 30ppm
Reproducibility	\leq 1% Coefficient of Variation for 20 consecutive samples using 10ppm Na set to read 50	
Linearity	Better than 2% when concentration of 3ppm Na/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 Output Services	Nominal 1.00V for a reading of 100.0 Electrical: 90-125V or 190-250V @ 50/60Hz Air: moisture and oil free 6 litre/minute @ 1kg/cm ² (14psi) Fuel: Propane, Butane, Natural Gas or L.P.G.	
Size	420 x 360 x 300mm	
Weight	8kg	

Accessories

Please note: These products will only operate with the correct type of air compressor and gas regulator, as specified.

535 001	Air compressor (220V/50Hz)
535 002	Air compressor (110V/60Hz)
037 001	Series 7 Diluter (230V/50Hz)
037 002	Series 7 Diluter (110V/60Hz)
500 176	Water separator (small)
500 177	Water separator (large)
500 134	Dust cover
500 172	Minor spares kit
500 173	Major spares kit
500 178	Butane regulator
500 179	Propane regulator
500 180	Natural gas regulator
025 016	Cleaning solution

Clinical Standards (500ml)

025 008	1.00mmol/l Li
025 004	100mmol/l Na/K
025 006	140mmol/l Na / 5mmol/l K
025 007	120mmol/l Na / 2mmol/l K
025 005	160mmol/l Na / 8mmol/l K
025 027	160mmol/l Na / 80mmol/l K

Industrial Standards (500ml)

025 023	1000ppm K
025 024	1000ppm Li
025 025	3000ppm Ba
025 021	1000ppm Na
025 009	1000ppm Ca

Order Codes

- 500 701** Model PFP7 supplied with Na, K, Li, Ba & Ca filters, connecting hoses and clips, compressor plug, drain trap, fuses and operating/service instructions. For use on 230V 50Hz.
- 500 731** Model PFP7 supplied with Na, K, Li, Ba & Ca filters, connecting hoses and clips, compressor plug, drain trap, fuses and operating/service instructions. For use on 110V 60Hz.
- 500 801** Model PFP7/C supplied with Na, K & Li filters, connecting hoses and clips, compressor plug, drain trap, fuses and operating/service instructions. For use on 230V 50Hz.
- 500 831** Model PFP7/C supplied with Na, K & Li filters, connecting hoses and clips, compressor plug, drain trap, fuses and operating/service instructions. For use on 110V 60Hz.

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Our policy is one of continuous research and development. We therefore reserve the right to amend the specifications within this document without notice.