

# Flame Photometers

## Cole-Parmer® Flame Photometers

an antyllia scientific company

Single channel emission flame photometer for routine determination of Na, K, Ca, Li and Ba.

Wide range of clinical, industrial and teaching applications including examination of:-

- pharmaceutical and biochemical samples
  - plant and animal tissues
  - minerals, cements and ceramics
  - oils and greases
  - biological and clinical fluids
- ◆ Digital readout
  - ◆ Switchable decimal point
  - ◆ Narrow band filters on rotating discs
  - ◆ Electronic ignition of flame
  - ◆ Electronic flame failure protection
  - ◆ Automatic regulation of air supply
  - ◆ Simple maintenance and cleaning
  - ◆ Recorder output

Model		FF-200D-I	FF-200D-R
Ranges	ppm mmol/l	0 to 199.9 —	0 to 199.9 120 to 160Na (linearised), 0 to 10.0K
Detection limits	ppm	Na 0.2 K 0.2 Li 0.25 Ca 15 Ba 30	0.20 0.20 0.25 15 (using accessory filter) 30 (using accessory filter)
Reproducibility		1% CV for 20 consecutive samples using 10ppm Na, set to read 50.0	
Linearity		Better than 2% when concentration of 3ppm, Na and K and 5ppm Li are set to read 100	
Specificity		Interference from Na, K, Li equal in concentration to test element will be less than 0.5%.	
Recorder output		Nominal 1V for a reading of 100.0	
Dimensions	mm	420 x 360 x 300	
Weight	kg	8	
<b>Services required</b>			
Electrical		230V 50Hz single phase	
Air		Moisture and oil free 6 litres/minute at 1Kg/cm <sup>2</sup>	
Gas		Propane, butane or natural gas (specify correct regulator when ordering)	

### Flame Photometers, Cole-Parmer

Supplied with filters as indicated, fuel and air connectors, instructions and service manual. Requires but does not include a gas regulator and an air compressor of the correct type. For 190-250V 50/60Hz single phase supplies. Formerly Jenway PFP7-series.

**FH200-15** Cole-Parmer FF-200D-I with Na, K, Li, Ba and Ca filters

**FH200-35** Cole-Parmer FF-200D-R with Na, K, and Li filters and fitted with lineariser

### Accessories and spares

It is recommended that accessory filters, air compressor and gas regulator are ordered with the flame photometer.

**FH205-15** Calcium filter

Air compressor, providing moisture and oil-free air. For 220-240V 50/60Hz supplies.

**FH207-10** Air compressor

**FH214-10** Natural gas regulator

**FH214-12** Propane regulator

**FH214-14** Butane regulator

**FH218-10** Minor spares kit

**FH218-12** Major spares kit

Water separator PFP253. For use in locations of high humidity to overcome problem of water condensation in the air line to the flame photometer.

**FH220-10** Water separator

### Calibration Standards

	mmol per litre	Pack qty. ml
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### Clinical Standards

<b>FH216-10</b>	100Na/K	500
<b>FH216-20</b>	140Na/5K	500
<b>FH216-24</b>	120Na/2K	500
<b>FH216-28</b>	160Na/8K	500
<b>FH216-32</b>	160Na/80K	500

	ppm	Pack qty. ml
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### Industrial Standards

<b>FH216-60</b>	1000Na	500
<b>FH216-64</b>	1000K	500
<b>FH216-68</b>	1000Li	500
<b>FH216-72</b>	3000Ba	500
<b>FH216-76</b>	1000Ca	500



FH200



FH207