



# FLAP Digital Flame Photometer

up to 5 elements in one single aspiration

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Catalogue



- Determination of sodium, potassium, calcium, lithium and barium concentration
- It has a flame failure safety system,
- Fast and precise analysis in one sample aspiration
- The COLO FLAP Flame Photometer is Microprocessor Controlled
- Analytical Measuring Range:
  - High Range 0 ~ 5ppm
  - Medium Range 0 ~ 30ppm
  - Low Range 0 ~ 199,9ppm
- Selection of elements
- Color graphics such as calibration graph and data
- Concentration unit selection
- Automatic calculation of curve coefficients
- Recorder output - nominal 1.00V for a reading of 100.0
- Reproducibility - <1% coefficient of variation for 20 consecutive samples using 10ppm Na set to 50
- Linearity - <2% error when 3ppm Na/K and 5ppm, Li set to 100
- Stability - <2% drift over 5 min when continuously aspirating a 10ppm sample set to 50.0
- Specificity - Interference from Na/K and Li equal in concentration to the test element will be <0.5%



## Low temperature flame photometry

provides a very reliable, fast and convenient results. Single channel



## Clinical Industrial Educational

Range 0 to 199,9 ppm



## Up to 5 elements in one single aspiration

.Na, K, Li, Ca and Ba



## 7-inch Color LCD touch screen

It has a fire protection system.



## Software (Optional)

To setting data, Acquire data, data analyzis,

Type	FAP1052	FAAP1053	FAP1054	FAP1055
Elements/Filters included	(K, Na, Li)	(K, Na, Ca)	(K, Na, Li, Ca)	(K, Na, Li, Ca, Ba)
Reproducibility	≤2%			
Stability	< 3%			
Response Time	< 8 seconds			
Sample Uptake Volume	< 6 ml/minute			
USB Data Output	Yes (COLO software is optional)			
Concentration units	ug/ml, mg/100ml, mmol/l, meq/l			
Gases	LPG, natural gas, propane, butane			
Power supply	190-250V 50/60Hz			
Standard accessories	Filters for measuring elements, connecting hoses and clamps, compressor plug, water drain siphon, fuse and instructions for use/service			
Dimension W*D*H	425 x 360 x 310 mm			

### Detection Limits

Element	ppm
Potassium (K)	0.2
Sodium (Na)	0.2
Lithium (Li)	0.025
Calcium (Ca)	15
Barium (Ba)	30

### Liner Error

Element	mmol/l
Potassium (K)	≤0.005
Sodium (Na)	≤0.03
Lithium (Li)	≤0.021
Calcium (Ca)	≤0.075
Barium (Ba)	≤0.066



### Air Compressor for Flame Photometer Specification

Type	Oil free, Single Cylinder Piston Compressor with air tank
Speed	1400-1700 rpm
Air Output	Air - Free of moisture and oil, 6 liters/min at 14 psi
Air Tank	3 litres
Operating pressure	14 -30 psi at a flow rate of 6L/min
Adjustable Pressure Range: 0 – 6 Bar	
Standard accessories	Connection tubes, fittings, water separator
Power supply	, 230V - 50/60 Hz

Calibration Standard for Flame Photometry	
Potassium (K)	1000ppm – 500ml
Sodium (Na)	1000ppm – 500ml
Lithium (Li)	1000ppm – 500ml
Calcium (Ca)	1000ppm – 500ml
Barium (Ba)	1000ppm – 500ml

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