

FLAME PHOTOMETER

CL 378

PRODUCT SPECIFICATION SHEET



Table Top



LCD Display



Auto Ignition



Microprocessor based, User friendly, Menu driven with Printer Interface.

Can simultaneously analyze Na, K, Li, Ca and Ba in single aspiration of the sample with proper removal of interferences.

The instrument carries advanced features like automatic ignition, automatic gas shut off in case of power failure.

Calibration data saving & retrieval

More than 800 Samples saving facility

SALIENT FEATURES

- ▷ Calibration curve programmability can be done using a maximum of 20 standards in the range of interest of the user, data processing through optional curve fitting techniques like segmental and quadratic.
- ▷ Analysis made much more simpler because of the multiple calibration curves saving facility.
- ▷ Optional PC compatibility with RS232C Interface.
- ▷ Saving Data and Retrieval of Standards & Samples.

APPLICATIONS

Determination of

- ▷ **In Bio-Medical Investigations:** Na & K in body fluids, Na, K and Li electrolytes in Serum. Ba in Fecal matter (from Barium meal, Barium swallow etc.).
- ▷ **In Pharamaceuticals :** Na, K, Ca nutrient solutions for cultivation of Antibiotics.
- ▷ **In Pollution Monitoring & Control :** Na, K & Ca in Natural, Spring, River, Sea boiler feed, Rings and Waste Water.
- ▷ **In Food and Agriculture :** Na & K content in Soils, Plant materials, Food & Beverages, Ca in Wine.
- ▷ **In Research Laboratories and Industries :** Alkali metal in Pastes, Soda Glass, Ceramic and Chemical Industries, Na, K and Ca in Cement and its raw materials.



Cement



Water



Soil



Agriculture



Clinical



Pharmaceutical



Chemical



Metals



Environmental & Pollution



Research



Mines & Geology



Food & Beverages

SPECIFICATIONS

SENSITIVITY	
Sodium (Na)	0.5 ppm
Potassium (K)	0.5 ppm
Lithium (Li)	0.5 ppm
Calcium (Ca)	15 ppm
Barium (Ba)	50 ppm

LINEARITY	
Sodium (Na)	Better than 2%
Potassium (K)	
Lithium (Li)	
Calcium (Ca)	
Barium (Ba)	

ASPIRATION	3 to 6 ml/min
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RANGE		
Sodium (Na)	0-100 ppm	0-200 mEq
Potassium (K)	0-100 ppm	0-100 mEq
Lithium (Li)	0-100 ppm	0-10 mEq
Calcium (Ca)	15-100 ppm	0-5 mEq
Barium (Ba)	50-1000 ppm	
mEq values are claimed with appropriate dilution		

FLAME SYSTEM
LPG & Oil free dry air

DETECTOR
Silicon Photodiode

REPEATABILITY	
Sodium (Na)	Better than 1% CV for 20 consecutive samples.
Potassium (K)	
Lithium (Li)	
Calcium (Ca)	
Barium (Ba)	3% CV for 20 consecutive samples of Concentrations between 50 to 199 ppm.

ACCESSORIES SUPPLIED	
With Instrument	Filters for Na, K, Air compressor with buffer tank, 5 cc beakers, Cleaning wire and Capillary.
At extra Cost	Filters for Ca, Li & Ba, Printer, PC and PC Software.

DATA PRESENTATION	
Readout	4 line 20 Character Dot Matrix Backlit LCD Module
Hard Copy	On Printer (Centronics)

PHYSICAL DIMENSIONS	
Size (WxDxH) in mm	430 x 230 x 235 ⁽¹⁾
Weight (in kg)	Approx. 10

POWER REQUIREMENT
90-260 V AC, 47-63 Hz, 1 ϕ , 65 VA Max.

⁽¹⁾ Chimney of the flame chamber contributes to height by another 100mm



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