

CL 378

PRODUCT SPECIFICATION SHEET



Table Top



Touch Screen



Auto Ignition

Flame Photometer



Microprocessor based Flame Photometer
Comprising of Aspirator Unit and Burner Unit.

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 USB 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 Pharmaceuicals :** 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 & Beveranges, 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.
- Measurement of Alkali & Alkaline earth metals.



Cement



Water



Soil



Agriculture



Clinical



Pharmaceutical



Chemical



Metals



Environmental
& Pollution



Research



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

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

LINEARITY / ACCURACY / REPRODUCIBILITY

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

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.

ASPIRATION

3 to 6 ml/min

DATA PRESENTATION

Display	7" TFT Touch Color Graphical
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ACCESSORIES SUPPLIED

With Instrument	Filters for Na, K, Oil free Air compressor with built-in air regulator, air filter and buffer tank, 5 cc beakers, Cleaning wire and Capillary.
At extra Cost	Filters for Ca, Li & Ba, Printer, PC and PC Software.

POWER REQUIREMENT

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

PHYSICAL DIMENSIONS

Size (WxDxH) in mm	345 x 315 x 255
Weight (in kg)	Approx. 10

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