Item Name :	Digital Flame Photometer
Item Code :	4014.2008.01

Item Description :

Digital Flame Photometer is a simple & easy to operate instrument for determination of Sodium, Potassium, Calcium & Lithium. It is an ideal instrument for soil testing labs. The instruments are supplied in two units viz. Main Unit and Compressor Unit. The Main Unit comprises of digital displays, detector, filters and nebulizer. The compressor unit supplies the compressed air to the main unit. Air at a given pressure is passed into the atomiser. The suction produced by it, draws the sample solution into the nebulizer and is sprayed as fine mist into the flame. The light emitted by the element at the characteristic wavelength is isolated by the narrow band interference filters, which then falls on to the silicon photodiode. After signal conditioning of the photodiode output, it is sent to digital converter and the results are displayed directly in ppm/meq units. The narrow band interference filters are mounted on a rotating disc fitted within the Main Unit. Appropriate filter can be selected by rotating this disc with the thumb. The oil free compressor with regulator maintains a stable airflow.

Features
• Simple & Easy to Operate • Narrow Band Interference Filters
• Accurate Na, K, Ca, & Li Determination • Mixing Chamber Designed For Stable Flame
• Concentric Non-Corrosive Nebulizer • Auto Ignition
Range • Na: 0 -100 ppm • K : 0-100 ppm • Ca: 15-100 ppm • Li: 10-100 ppm
Sensitivity • Na: 5 ppm • K : 5 ppm • Ca: 10 ppm • Li: 10 ppm
Accuracy • + 2% upto 40 ppm, • + 5% above 40 ppm
Measurement System • One element at a time
Readout • 2½ Digit • 7-Segment LED
Ignition System • In-built electronic Ignition by press of switch
Repeatability • + 2 Counts
Detector • Silicon Photodiode
Filters • Narrow band interference glass filters
Nebulizer • Black backelite, axial flow type
Flame System • LPG & dry oil free air
Warm-Up Time • 10 minutes
Power • 230 V + 10% AC, 50 Hz
Dimensions • 375 x 245 x 220 mm (L x B x H) (Approx.)
Weight • 7.5 Kg (Approx.)
COMPRESSOR UNIT
Air Supply • By oil free mini compressor unit with pressure regulator
Combustion Gas • LPG controlled by precision regulator
Power • 230 V + 10% AC, 50 Hz
Dimensions • 290 x 255 x 210 mm (L x B x H) (Approx.)
Weight • 8 Kg (Approx.)

Item Image :

Cat. No.

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