

INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETER SPE51-0800



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Used in Environmental, Metallurgical, Geological, Petrochemical, Pharmaceutical, Food safety.

SPE51-0800 INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETER

Standard. 3600 line grating: (190 nm ~ 500) nm; 2400 line grating: (190 nm ~ 800) nm



SPECIFICATIONS

Model	SPE51-0800
RF Power technical parameter	
Circuit type:	solid-state RF power supply, with function of automatch
Frequency:	27.12 MHz \pm 0.05%
Frequency Stability	< 0.1 %
Power Output:	800 W - 1200 W
Power Output Stability:	< 0.3 %
Escaped RF radiation:	30 cm away from the instrument, electric field: E < 2V/m
Sampling System Technical Parameter	
Output working coil inner diameter:	25 mm
Torque tube:	Three concentric, external diameter 20 mm
Coaxial nebulizer:	Outer diameter 6 mm
Double barrel atomizing chamber:	Outer diameter 34 mm
Gas Flow Controls	
Plasma Argon Flowmeter:	(100-1000) L/h (1.6-16 L/min)
Auxiliary Argon Flowmeter:	(10-100) L/h (0.16-1.66 L/min)
Carrier Argon Flowmeter:	(10-100) L/h (0.16-1.66 L/min)
Pressure Maintaining Valve	0 - 0.4 MPa
Cooling Water:	Temperature: 20-25 °C, Rate of Flow > 5 L/min, Hydraulic Pressure > 0.1 Mpa
Spectrometer	
Optics:	Czerny-Turner type
Focal length:	1000 mm
Grating:	Ion Beam Etching Holographic Grating, 3600 L/mm or 2400 L/mm

Reciprocal linear dispersion:	0.26 nm/mm
Resolution:	≤ 0.007 nm (3600 line grating); ≤ 0.015 nm (2400 line grating)
Wavelength range:	3600 line grating: (190 nm ~ 500) nm; 2400 line grating: (190 nm ~ 800) nm
Minimum pace of stepping motor:	≤ 0.0006 nm
Exit Slit:	12 μ m
Entrance Slit:	10 μ m
Photoelectric Converter Performance	
Photomultiplier tube specification:	R293/R928
Negative HV on PMT:	0 - 1000 V
Stability:	< 0.05 %

LABSTAC

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