

INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETER SPE51-1500



INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETER SPE51-1500

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

SPE51-1500 INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETER

Full spectrum direct reading. Precision constant temperature, 35 ± 0.1 °C, Distributed nitrogen purging, normal purging 1.8 L/min, fast purging 3.8 L/min.



SPECIFICATIONS

Model	SPE51-1500
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 - 1500 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:	(100-100) L/h (0.16-1.66 L/min)
Carrier Argon Flowmeter:	(100-100) 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
Technical index of spectrometer	
Grating:	Middle step grating, 52.67 lp/mm, 64 sparkle angle
Wavelength range:	160-1000 nm

Numerical aperture:	F < 8, ultra-high luminous flux to ensure the detection limit and sensitivity of the instrument
Resolution:	< 0.0065 nm @ 200 nm
Astigmatism:	Equivalent background concentration of 10000 ppm Ca solution at As 189.042 nm <2 ppm
Light chamber:	Precision constant temperature, 35 ± 0.1 °C, Distributed nitrogen purging, normal purging 1.8 L/min, fast purging 3.8 L/min
Testing device technical specifications	
Detector:	CID
Target Size:	27.6 mm x 27.6 mm, 1024 x 1024 addressing detection units
Reading mode:	Non-destructive read (NDRO), full reading (FF) and arbitrary read integral (RAI)



Labstac LLC

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA
 Email: contact@mail.labstac.com | Website: labstac.com