

Inductively Coupled Plasma Mass Spectrometer

ICPMS-2030



Complément d'informations : www.scomedica.ma

Specifications

ICPMS-2030	
Plasma Ion Source	
Sample Spray Chamber	Cyclone chamber (electronically cooled)
Peristaltic Pump	4 ch
Plasma Torch	Mini torch
Nebulizer	Coaxial
Torch Positioning	X, Y, and Z automatic 3-axis positioning
High-Frequency Power Supply Unit	
Frequency	27 MHz
High-Frequency Output	Max 1.4 kW \pm 0.3%
Mass Spectrometer Unit	
Mass Spectrometer	Quadrupole mass spectrometer
Mass Number Range	5 to 260
Collision Cell	
	Octopole collision cell Gas used: Helium gas at 0 to 10 mL/min
Detector	Electron multiplier
Vacuum System	3-stage differential pumping

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Installation Requirements

1. Installation Site Environment	Temperature within 18 to 28°C (max. 2°C/h temperature change)
	Humidity within 20 to 70% RH Avoid using the system in locations with significant vibration or dust.
2. Power Supply	Main Unit Single-phase 200 to 240 V \pm 10 %, 50/60 Hz, 6 kVA
	Data Processing Single-phase 100 V \pm 10 %, 50/60 Hz, 200 VA
	Options
	Laser Printer Single-phase 100 V \pm 10 %, 50/60 Hz, 900 VA Cooling Water Circulator Single-phase 200 to 230 V, 50/60 Hz, 2 kVA
3. Grounding	Should be grounded independently with a maximum resistance of 30.
4. Gas Supply	Type:
	Argon gas with 99.95% purity Helium gas with 99.999% purity Adjust the argon gas supply pressure to 450 \pm 10 kPa. For 7 m ³ gas cylinders, one cylinder is required approximately every ten hours of operation. Adjust the helium gas supply pressure to 250 \pm 10 kPa.
5. Cooling Water	Main unit cooling water temperature 5 to 30 °C and minimum flow rate of 1 L/min
6. Exhaust Duct	Exhaust gas from the plasma stand is mostly argon, but also includes some metal vapors and solvent. Therefore, install exhaust ducting.
7. Application for Permit	In Japan, installing an ICPMS-2030 system requires applying for a permit for using high-frequency radio waves, based on the Radio Wave Control Law.
8. Weight	140 kg

Note: Refer to the installation guidelines for more details.

Installation Example

(Unit : mm)

