

High Purity Acid Purification System Repair Heating Mantle And Control Box Maintenance On Site Technical Service

Item Number: PL-CP372



Introduction

Professional maintenance and domestic repair services for high-purity acid purification heating mantles and control boxes. Our Nanjing-based team provides expert on-site technical support and customized fluoropolymer-compatible heating solutions for demanding laboratory trace analysis and chemical processing environments nationwide.

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Application	Description	Key Benefit
Geochemical Trace Analysis	Purification of HNO ₃ and HCl for use in isotope ratio mass spectrometry and geochronology.	Minimizes reagent blanks for ultra-low level detection.
Semiconductor Fabrication	On-site cleaning and purification of high-purity hydrofluoric acid for wafer etching processes.	Ensures consistent chemical potency and reduced particle count.
Environmental Monitoring	Large-volume acid preparation for heavy metal testing in wastewater and soil samples.	High-throughput reliability for commercial testing labs.
Pharmaceutical Quality Control	Purifying reagents for USP <232>/<233> elemental impurities testing in drug products.	Compliance with stringent regulatory purity standards.
Nuclear Material Processing	Handling specialized acid distillation for the separation of radioactive isotopes in research.	Robust construction for high-stakes laboratory environments.
Oceanographic Research	Preparation of ultra-clean reagents for trace metal analysis in seawater and marine biology.	Corrosion resistance against harsh salt-air and acid environments.

Specification Category	Parameter Details (Item Number: PL-CP372)	Specification Value
System Identification	Model Identifier	PL-CP372
Service Scope	Maintenance Type	Domestic Repair / Component Replacement
	Support Level	On-site Service (Nanjing Area) / Nationwide Shipping
Control Box Specs	Control Method	Digital PID Microprocessor Control
	Input Voltage	Customizable (110V / 220V AC)
	Temperature Accuracy	Client-Defined (High Precision Variants Available)
	Connectivity	Standard Laboratory Plug / Custom Industrial Connectors
Heating Mantle Specs	Heating Element	High-Durability Resistance Wire
	Insulation Material	High-Purity Fibreglass or Ceramic Fiber
	Shell Material	Corrosion-Resistant Coating or PTFE-Encapsulated
	Compatibility	Tailored to fit 500mL, 1000mL, 2000mL or Custom Vessels
Customization	Geometry	Custom CNC Machined Parts and Fitments

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	Safety Features	Optional Over-temp Alarms / Manual Reset Thermostats