High Purity Ptfe Acid Steam Cleaning System Trace Analysis Labware Decontamination Unit With Leak Proof Closed Reflux Technology And Customizable Multi Position Capacity

Item Number: PL-CP113

Introduction

Optimize trace analysis workflows with this high-purity PTFE acid steam cleaning system. Featuring a leak-proof closed-loop design for significant acid savings and superior decontamination, this customizable unit ensures ultra-low background levels for sensitive ICP-MS and ICP-OES laboratory applications.

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Application	Description	Key Benefit
Trace Metal Analysis	Decontaminating TFM and PFA digestion vessels used in ICP-MS and ICP-OES sample preparation.	Achieves ultra-low background levels for PPT and PPB detection.
Semiconductor Manufacturing	Cleaning PFA wafer carriers and fluid handling components to remove trace surface contaminants.	Prevents metallic contamination in high-purity fabrication processes.
Geochemical Research	Deep cleaning of Teflon crucibles and digestion tubes used for mineral dissolution and isotope analysis.	Ensures high accuracy in sensitive isotopic and mineralogical measurements.
Environmental Monitoring	Automated washing of large batches of soil and water sample containers prior to heavy metal testing.	Increases laboratory throughput while maintaining strict quality control.
Clinical & Pharmaceutical	Sanitizing PFA vials and pipettes used for sensitive biological and drug metabolism studies.	Eliminates cross-contamination between batches of sensitive medical samples.
Nuclear Engineering	Decontaminating specialized fluoropolymer labware used in the analysis of radioactive and corrosive materials.	Provides a safe, enclosed environment for handling hazardous reagents.

Parameter	Specifications for PL-CP113
Product Item Number	PL-CP113
Primary Construction Material	High-Purity Virgin PTFE / PFA
Cleaning Mechanism	Acid Steam Reflux / Sub-boiling Vapor Cleaning
Compatible Reagents	HNO3, HCl, HF, and other high-purity acids
Processing Capacity	26 positions (Standard) / Fully Customizable
Sealing Method	Threaded and Gasketed Leak-Proof Seal
Temperature Resistance	Continuous operation up to 200°C (Material limited)
Customization Options	Chamber dimensions, rack geometry, and tube diameters
Control System	Compatible with external PID temperature controllers
Manufacturing Process	End-to-end precision CNC fabrication