

High Purity Methylmercury Ethylmercury Determination Heating System Six Hole Customizable Module Pfa Distillation Vessels

Item Number: PL-CP427



Introduction

Precision engineered heating system for methylmercury and ethylmercury determination featuring customizable six-hole modules and high-purity PFA distillation flasks to ensure contamination-free sample preparation in demanding trace metal analysis and environmental monitoring laboratory applications.

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Application	Description	Key Benefit
Marine Sediment Analysis	Extraction of methylmercury from ocean and river sediments to assess ecological impact.	High recovery rates of volatile species in complex matrices.
Food Safety Testing	Determination of alkylmercury levels in fish, shellfish, and other aquatic organisms for regulatory compliance.	Eliminates sample contamination from traditional glass vessels.
Wastewater Monitoring	Tracking industrial discharge and municipal water treatment efficacy for mercury removal.	Robust performance in continuous, high-volume testing environments.
Soil Contamination Surveys	Analysis of agricultural and industrial land to evaluate mercury bioaccumulation and mobility.	Precise temperature control for sensitive organic mercury compounds.
Atmospheric Research	Distillation of mercury captured in precipitation or air filters for isotopic and speciation studies.	Ultra-low blank levels suitable for high-sensitivity trace analysis.
Biomedical Research	Investigating mercury metabolism in blood, hair, and tissue samples for clinical studies.	Minimal sample loss and maximum integrity for small-volume samples.

Specification Category	Parameter Details for PL-CP437	Status
Model Identification	PL-CP437 Series Alkylmercury Heating System	Standard Reference
Hole Configuration	6-Hole (Standard)	Customizable to 4, 8, 12, or more
Hole Diameter/Depth	Designed to match PFA Distillation Flasks	Built to client specification
Vessel Material	High-Purity Perfluoroalkoxy (PFA)	Standard
Distillation Flask Volume	Range of standard and custom sizes available	Built to client specification
Heating Block Material	High-conductivity aluminum with protective coating	Standard
Temperature Range	Ambient to optimized distillation temperatures	Built to client specification
Control System	External precision digital PID controller	Optional/Customizable
Sealing Components	PTFE/PFA high-integrity seals and connectors	Standard
Power Requirements	Configurable for global voltage standards (110V/220V)	Built to client specification

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Fabrication Method	End-to-end custom CNC machining	Standard