

Ptfe Continuous Reaction System Jacketed Constant Pressure Dropping Funnel Corrosion Resistant Hf Resistant Customizable

Item Number: PL-CP20



Introduction

Discover our premium PTFE continuous reaction system featuring jacketed constant pressure dropping funnels. Engineered for extreme corrosion resistance and zero precipitation, this HF-resistant laboratory unit is fully customizable to meet your specific industrial research and high-purity chemical processing needs.

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Application	Description	Key Benefit
Semiconductor Etching Prep	Preparation and continuous mixing of HF-based etching solutions for wafer processing.	Total HF resistance and zero ion contamination.
Pharmaceutical Synthesis	Continuous flow production of pharmaceutical intermediates involving highly reactive reagents.	Precision temperature control for unstable reactants.
Trace Metal Analysis	Sample digestion and preparation for ICP-MS and other high-sensitivity analytical methods.	Ultra-purity with no leaching of trace elements.
Fine Chemical Production	Scaled-up production of specialty chemicals requiring constant reagent addition rates.	Consistent flow rates through pressure-balanced design.
Battery Material Research	Synthesis of lithium-ion battery electrolytes and cathode precursors in corrosive environments.	Long-term durability against aggressive electrolytes.
Polymerization Reactions	Controlled addition of catalysts or monomers in temperature-sensitive polymerization processes.	Uniform reagent introduction and thermal stability.
Nuclear Chemistry	Handling and processing of radioactive isotopes in acidic media.	Robust containment and radiation resistance of PTFE.

Parameter Category	Specification Details for PL-CP20	Customization Status
System Model	PL-CP20 Continuous Flow Series	Standard Identifier
Primary Materials	High-Purity PTFE, PFA, TFM	Fully Customizable
Reaction Capacity	From 50mL to 20L+ Scalable	Per Project Requirement
Funnel Capacity	25mL to 5000mL Jacketed Options	Per Project Requirement
Temperature Range	-200°C to +260°C (Material Dependent)	Application Specific
Operating Pressure	Ambient to Moderate Pressure Ratings	Design Dependent
Jacket Connections	GL14, GL18, or Custom NPT/Barbed	Per Client Specification
Sealing Technology	Integrated PTFE O-Rings and Machined Tapers	High-Performance Standard
Port Configurations	Multiple Feed/Sampling Ports with Valves	Fully Customizable
Mounting Options	Benchtop Stand or Integrated Rack Mounts	Bespoke Design
Chemical Resistance	All Acids, Bases, and Organic Solvents	Universal Compatibility