



KINTEK

Separatory Funnels & Burettes Catalog

Contact us for more catalogs of PTFE(Teflon) Products, Reaction & Synthesis Equipment, Electrochemistry & New Energy Testing, Basic Labware & Containers, Fluid Transfer, Tubing & Valves, Sample Preparation & Filtration, General Consumables & Seals, High-Purity & Trace Analysis, Custom Machining Services, etc.

KINTEK

COMPANY PROFILE

>>> About Us

From everyday basic labware (beakers, measuring cylinders, crucibles, dishes, reagent/wash bottles, centrifuge and digestion tubes), high-purity trace analysis instruments, and cleaning/storage tanks, to comprehensive fluid transfer components (tubing, fittings, valves), sample prep and filtration tools (separatory funnels, burettes, filters, pipettes, tweezers, spatulas), and general consumables (stirring bars, O-rings, gaskets, seal tapes, caps, septa), extending all the way to advanced derivative and reaction apparatus like standard or custom electrochemical cells, battery testing fixtures, electrode accessories, hydrothermal synthesis liners, microwave digestion vessels, microchannel reactors, and condensation/reflux devices, KINTEK manufactures virtually all imaginable laboratory supplies crafted from PTFE and PFA. Backed by end-to-end custom CNC fabrication, we are equipped to deliver absolutely everything from complex non-standard machined parts and bespoke laboratory setups to high-volume orders, maintaining an exclusive and absolute focus on high-performance fluoropolymer materials.



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.

[Learn More](#)

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

High Purity Ptfе Buchner Funnel Vacuum Filtration System Corrosion Resistant Low Trace Laboratory Suction Filter Apparatus

Item Number: PL-CP02



Introduction

Optimize your laboratory workflows with our premium PTFE Buchner funnel vacuum filtration systems. Engineered for extreme chemical resistance and low-trace analysis, these durable units provide reliable suction for demanding industrial and scientific sample preparation processes.

[Learn More](#)

Application	Description	Key Benefit
Trace Metal Analysis	Filtering samples for ICP-MS and AAS where metallic contamination from ceramic must be avoided.	Ultra-low background levels ensure analytical accuracy.
Pharmaceutical Synthesis	Separation of active pharmaceutical ingredients (APIs) from aggressive solvent mixtures.	High chemical resistance prevents material leaching into the drug product.
Cryogenic Filtration	Processing materials at extremely low temperatures down to -200°C.	Material remains ductile and functional without becoming brittle.
Corrosive Acid Recovery	Filtration of concentrated sulfuric, nitric, or hydrofluoric acids used in industrial etching.	Complete immunity to acid-base corrosion extends equipment lifespan.
Semiconductor Grade Chemicals	High-purity filtration of chemicals used in wafer fabrication and electronic components.	Maintains the highest purity standards required for microelectronics.
Environmental Testing	Collecting particulate matter from wastewater or soil extracts for pollutant analysis.	Durable construction survives field-to-lab transport and heavy use.
Precious Metal Refining	Recovery of gold, platinum, or silver precipitates from aqua regia or other strong oxidizers.	Non-stick surface ensures maximum yield of expensive materials.

Specification Parameter	Technical Detail for PL-CP02
Product Item Number	PL-CP02
Material Composition	100% High-Purity Virgin PTFE (Polytetrafluoroethylene)
Operating Temperature Range	-200°C to +250°C
Low-Temperature Performance	Maintains 5% ductility at -196°C
Available Diameter (Inner)	60mm, 80mm, 100mm, 120mm, 150mm, 200mm, 250mm, 300mm
Color	Pure Opaque White
Chemical Compatibility	Universal resistance (except molten alkali metals and fluorine at high pressure)
Surface Finish	Smooth CNC-machined, non-adsorbent
Structural Feature	Integrated porous filter plate, tapered connection stem

Application	Description	Key Benefit
Specification Parameter	Technical Detail for PL-CP02	

Compatible Media Filter paper, membrane filters, vacuum suction bottles



Kintek

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