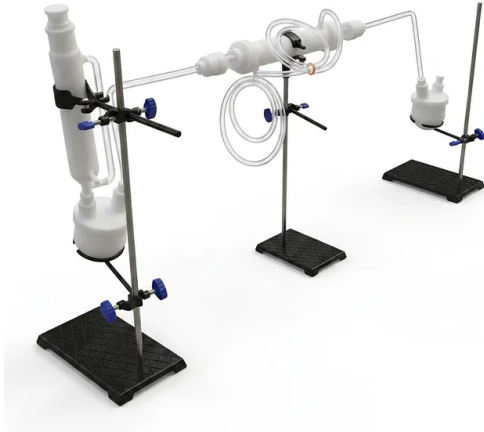


# Custom Ptfе Condenser Tube Hydrofluoric Acid Resistant Reflux Device Constant Pressure Separatory Funnel

Item Number: PL-CP239



## Introduction

Engineered for extreme chemical environments, our custom PTFE condenser tubes and hydrofluoric acid resistant reflux devices offer unparalleled corrosion resistance and non-stick performance. These high-purity laboratory tools ensure zero sample contamination and long-term durability in demanding industrial applications.

[Learn More](#)

Application	Description	Key Benefit
Hydrofluoric Acid Distillation	Purification and recovery of HF for semiconductor cleaning processes.	Complete resistance to acid etching that destroys glass.
Pharmaceutical Reflux Synthesis	Maintaining constant temperature and condensation during drug development.	Zero contamination from seals or vessel walls.
Trace Metal Analysis	Preparation of samples for ICP-MS or atomic absorption spectroscopy.	Ultra-low blank values due to high-purity PTFE construction.
Environmental Water Testing	Separation and extraction of organic pollutants from aqueous samples.	Non-stick surface prevents cross-contamination between samples.
Semiconductor Wet Processing	Precision fluid delivery and condensation in cleanroom environments.	Maintenance-free operation with no particulate shedding.
Corrosive Solvent Recovery	Condensing and collecting volatile organic compounds (VOCs) in chemical plants.	10-20 year service life in aggressive chemical media.
Petrochemical Refining R&D	Testing catalysts and additives in high-pressure, acidic environments.	Reliable airtightness prevents hazardous vapor leakage.
Battery Material Research	Synthesis of electrolytes and electrode materials involving corrosive salts.	Excellent thermal stability and chemical resistance to electrolytes.

Parameter	Specification Details for PL-CP239
<b>Model Identifier</b>	PL-CP239 (Customizable Configuration)
<b>Material Construction</b>	High-Purity Virgin PTFE (Polytetrafluoroethylene)
<b>Chemical Compatibility</b>	HF, H <sub>2</sub> SO <sub>4</sub> , HCl, HNO <sub>3</sub> , Aqua Regia, Organic Solvents, Strong Bases
<b>Coefficient of Friction</b>	0.05 - 0.10 (Static/Dynamic)
<b>Temperature Range</b>	-200°C to +260°C (Continuous Operation)
<b>Condenser Style</b>	Liebig, Graham, or Custom Coil Designs Available
<b>Sealing Mechanism</b>	Precision-Threaded PTFE Connectors / Tapered Joints
<b>Funnel Type</b>	Constant Pressure with Integrated Pressure Equalization Tube
<b>Surface Finish</b>	High-Smoothness CNC Machined (Non-Porous)
<b>Customization Options</b>	Dimensions, Port Sizes, Capacities, and Fitting Types
<b>Expected Service Life</b>	10 - 20 Years (Depending on application)