

# High Purity Ptfе Reaction Vessel With Electric Stirring System And Customizable 5L Tank Including Buchner Funnel Filtration Assembly

Item Number: PL-CP33



## Introduction

Engineered for high-purity chemical processing, this customizable 5L PTFE reaction vessel features an integrated electric stirring system and Buchner funnel filtration, ensuring superior chemical resistance and scratch-proof performance for demanding laboratory research and industrial trace analysis applications.

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Application	Description	Key Benefit
Trace Metal Analysis	Preparation and digestion of samples for ICP-MS or AAS where metallic contamination must be eliminated.	Ultra-low leaching profile
Pharmaceutical Synthesis	Production of high-purity Active Pharmaceutical Ingredients (APIs) involving aggressive catalysts.	Zero cross-contamination
Semiconductor Etchants	Mixing and filtering of high-purity acids used in silicon wafer cleaning and etching processes.	Resistance to HF and strong acids
Polymerization Research	Conducting low-friction agitation for the development of advanced polymer chains and coatings.	Consistent homogeneity and flow
Fine Chemical Production	Small-batch manufacturing of specialized reagents requiring absolute material purity.	Customizable vessel configurations
Cryogenic Reactions	Low-temperature chemical processing utilizing liquid nitrogen or specialized cooling jackets.	Material flexibility at low temps
Corrosive Filtration	Rapid vacuum filtration of highly alkaline or acidic slurries using integrated Buchner funnels.	Robust vacuum performance

Attribute	Specification Details for PL-CP33
Model Number	PL-CP33
Core Material	High-Purity PTFE (Polytetrafluoroethylene) / PFA Option Available
Nominal Volume	5L (Fully Customizable to User Requirements)
Stirring Mechanism	Electric Overhead Stirrer with PTFE-Coated Stainless Steel Core
Agitation Speed	Adjustable Variable Speed Control
Filtration System	Integrated PTFE Buchner Funnel with Suction Flask Connection
Thermal Range	Continuous operation from -200°C to +260°C
Chemical Compatibility	Universal (Except molten alkali metals and gaseous fluorine)
Customization Options	Vessel height, diameter, port types (GL45, 24/40, etc.), and stirring paddle geometry
Surface Finish	Mechanically polished low-friction PTFE surface
Mounting	Laboratory stand compatible with heavy-duty clamping system