

High Purity Pfa Gas Washing Bottle Custom Gas Scrubbing Unit With Ptfе Bubbling Ball And Trace Analysis Absorption Vessel

Item Number: PL-CP23



Introduction

Premium PFA gas washing bottle featuring PTFE bubbling balls for high-purity gas scrubbing. Designed for trace analysis and corrosive gas filtration, these customizable absorption units ensure zero contamination and superior chemical resistance for critical laboratory processes and industrial applications.

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Application	Description	Key Benefit
Trace Metal Analysis	Collection of atmospheric gas samples for heavy metal detection using ICP-MS or AAS.	Eliminates background ion leaching from vessel walls.
Semiconductor Gas Scrubbing	Removal of acidic gases such as HF, HCl, and HBr from cleanroom process exhaust streams.	High resistance to the most aggressive etching chemicals.
Environmental Stack Sampling	Monitoring of industrial emissions for pollutants like SO ₂ , NO _x , and volatile organic compounds.	Robust and unbreakable for field use in harsh environments.
Petrochemical Quality Control	Absorbing sulfur compounds or other impurities from hydrocarbon gas streams for lab testing.	Inert to organic solvents and sulfur-containing species.
Synthetic Chemistry	Bubbling reactive gases (e.g., Chlorine, Ammonia) through liquid reagents in pilot-scale reactors.	Reliable gas dispersion and temperature stability.
Calibration Gas Preparation	Humidifying or conditioning calibration gases prior to instrument delivery.	Consistent gas-liquid interface without adding impurities.
Hydrogen Fuel Cell Testing	Cleaning and saturating feed gases for fuel cell performance evaluation and membrane testing.	High purity prevents poisoning of expensive catalysts.

Specification Category	Details for PL-CP23
Model Identifier	PL-CP23
Core Materials	High-purity PFA (Bottle body & Cap), PTFE (Bubbler & Internal Tubing)
Available Volumes	Fully customizable (Standard sizes: 50ml, 100ml, 250ml, 500ml, 1000ml, 2000ml)
Customization Options	Bespoke vessel dimensions, wall thickness, and specialized geometries
Inlet/Outlet Connections	Customizable (Flared, PFA Compression, NPT threads, or GL-style caps)
Bubbler Type	Choice of Sintered PTFE (fine bubbles) or Drilled PTFE Bubbling Ball
Internal Tube Length	Tailored to vessel depth and specific liquid volume requirements
Temperature Rating	-200°C to +260°C (-328°F to +500°F)
Pressure Capability	Dependent on wall thickness and connection type (Consult for vacuum/pressure limits)
Chemical Compatibility	Universal (Except molten alkali metals and elemental fluorine at high temperature)
Cleaning Protocol	Compatible with nitric acid boiling and ultrasonic cleaning methods