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Focus on sample pretreatment for 30 years

Company Profile

Nanjing Binzhenghong Instruments Co., Ltd. - Your Premier Labware Supplier

Our Company is located in the cultural center of Nanjing. Since the 1980s, we have been specializing in the design, mold making, production, and processing of PFA/FEP/PTFE products. The core of our business is the development of trace element analysis vessels, which are essential in almost every laboratory.

Our team of experts has excellent technical skills and precision engineering, dedicated to researching and developing first-class products that meet the strict standards of modern laboratories. From theoretical concepts to drawing designs, mold casting, and final production, we have a series of comprehensive and rigorous quality control systems to ensure the quality of our products.

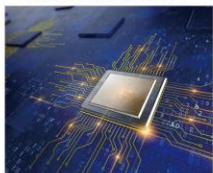
We provide a complete solution for the entire process of "element analysis" experiments.

Our trace element analysis vessels are made of PFA/FEP/PTFE materials, which have extraordinary corrosion resistance, high temperature resistance, and extremely low background values. These containers are widely used in geochemistry, isotope analysis, biomedical research, environmental monitoring, semiconductors, and many other scientific fields.

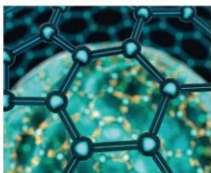
Our product pricing is transparent and highly competitive. Our customers can rest assured that their investment will receive the maximum return while ensuring product quality. In addition, we provide comprehensive after-sales support to ensure that our customers can use our products with peace of mind.

Application Areas

Semiconductors



New Materials



New Energy



Geochemistry



Nonferrous Metals



Petrochemicals





Life Sciences



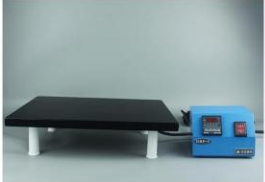
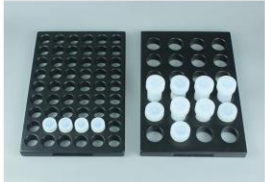
Biopharmaceuticals



PFA Vials are specially designed for geochemical sample digestion, made of high-purity PFA material, with excellent chemical stability and ultra-low trace metal elements. While the smooth interior makes them easy to clean. Rarely metal ions are leached and precipitated. The flat bottom is more preferable for the DBF hotplate.

PFA Vials						
	NO.	Size	Body ODxH (mm)	Closure ODxH (mm)	Interior	Temperature
	1	2.5ml	17X27	22x10	Rounded	-200°C to 260°C (-328°F to 500°F)
	2	3ml	17X36	22x10	Rounded	
	3	5ml	21X36	27x14	Conical	
	4	6ml	17X44	22x10	Rounded	
	5	7ml	21X36	27x14	Rounded, Conical, Flat	
	6	15ml	29X44	37x16		
	7	22ml	29X59	37x16		
	8	30ml	29X67	37x16		
	9	40ml	29X98	37x16		
Vial Cleaning System						
	Cleaning Container	4L	6L			
	OD	174mm	189mm			
	High	233mm	270mm			
	Vial Rack System	For...7ml,15ml,30ml				
	Cleaning Fluid	Soap solution or acids				
	Application	The Vial Cleaning System can be placed on a hotplate to clean the PFA vials and labware by heated soaking in soap solution or acids.				
	Feature	All wetted parts are molded from high purity PFA				
		Highly durable and will not crack or shatte				
		No need for continuous monitoring				
Saves on acid cost , environmental friendly						

The DBF series of inert hotplates are designed for using in the most challenging ultratrace applications. It is commonly used in elemental analysis laboratories for the preparation of ICP-MS/OES, AA, AFS samples.

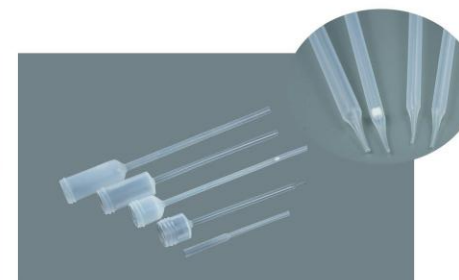
Hotplate					
	Model	DBF	GW		
	Heated Working Surface	400mmx300mm, 600mmx400mm, made to order			
	Max Temperature	220°C	350°C		
	Surface Design	With a Teflon™ PFA coating, corrosion-resistant, cleaner	Without a Teflon™ PFA coating		
	Plate Material	Refined Aluminum Alloy /High Quality Graphite			
	Feature	The temperature specification of the DBF /GW series is ±1°C at 160°C, with excellent temperature uniformity and high thermal efficiency			
		Separate, digital temperature controller, longer service life, less acid gas corrosion			
All-round anti-corrosion design: power cable with PFA protective tubing, PTFE column feet, no exposed metal parts					
Heating Block (With a Teflon™ PFA coating)					
	Size	300x200x20mm	400x300x20mm		
	Plate Material	Refined Aluminum Alloy /High Quality Graphite			
	Max Temperature	220°C			
	Accepts PFA Vial	7ml	15/22/30ml	7ml	15/22/30ml
	Max Number of Holes	54	35	108	70
	Advantage	Used for PFA vials, high efficiency, uniform heating, and customizable			

High-pressure Digestion Tanks are used to digest insoluble geological mineral samples and the internal high temperature and high-pressure environment make the sample digestion more thorough and effectively avoid the loss of volatile elements.

High-pressure Digestion Tank		
Structure	One outer tank and one inner cup	
Size(ml)	10,15,20,25,30,50,100	
Outer Tank	Non-magnetic 304 stainless steel	
Inner Cup	TFM	PTFE
Max Temperature	230°C	200°C
Max Pressure	5Mpa	



High-pressure Digestion Tank



PFA Microcolumns

Microcolumns are used to perform ion exchange sample preparation in geochemistry.

PFA Microcolumns			
Reservoir Volume	1.5ml	15ml	30ml
Capillary ID(mm)	3	3,4,6,7,8	6,7,8,10
Capillary length(mm)	≤70	≤195	
Feature	Unibody molding, no welding marks, will not break, no residue		
Advantage	Reservoir and capillary specifications are customizable		
	PTFE frits are included in the price of the Microcolumns and can be sold separately		



Acid Purification System

Model	SCH-I	SCH-II	SCH-IV	SCH-VI
Capacity	1L	2L	4L	6L
Production Rate	50ml/hr	70ml/hr	90ml/hr	130ml/hr
Dimensions (footprint) LxWxH	1L: 320mmx275mmx390mm 2L: 320mmx304mmx400mm 4L: 420mmx350mmx565mm			
Solvents That Can Be Purified	HNO ₃ , HCl, HF, Organic solvents, Water			
Feature	No cooling water is required and all wetted parts are molded PFA			
	Graduated front fill tube shows acid level remaining			
	Digital temperature controller with auto shutoff and segment timing temperature control			
	The temperature controller is located away from the equipment, allowing placement outside the laboratory fume hood			
	The power cable with PFA protective tubing			
Application	Geochemistry, Semiconductors, New materials, New energy, Chemical, Pharmaceutical Chemistry, Non-ferrous metals			



Graphite digestion system is an economical and easy-to-operate sample pretreatment equipment and provides convenient and efficient digestion.

Graphite Digestion System

Model	XJ			
Vessels	20, 25, 30, 36, 40, 42, 48, 63, 72, 80, made to order			
Material	Aluminum Alloy		Graphite	
Coating	PFA Coating	Without PFA Coating	PFA Coating	Without PFA Coating
Max Temperature	220°C	350°C	220°C	350°C
Hole Diameter X Depth	29*160mm, 31*100mm, made to order			
Microwave Vessel	CEM, Milestone, Anton Paar, etc.			
Advantage	Faster heat conduction and more uniform heating		Fully enclosed frame design, lower loss, less corrosion	
Feature	Separate, digital temperature controller, longer service life, less acid gas corrosion			
	PID temperature control and digital display, high temperature control precision, temperature difference ±1°C			
Application	Supporting AFS, AA, ICP and other instruments for sample pretreatment			


NJbinglab provide a variety of digestion tubes to match your digestion instruments.





	Material	pp	PFA	PTFE	High borosilicate glass
	Maximum temperature	120°C	260°C	250°C	450°C
	Volume	15,25,30,50,60,100,150ml, made to order			
	Lid	made to order			

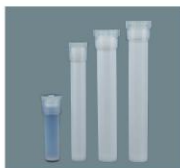






Using the principle of microwave heating, through the intelligent control of the touch screen, the sample in the sealed digestion tank is directly heated, effectively ensuring the integrity of the "volatile elements" in the process of sample analysis and detection.

Microwave Digestion System	
Model	MD
Vessels	8,16,24,40
Temperature Control	Non-contact mid-infrared temperature measurement technology
Main Features	Self-locking structure, explosion-proof microwave screen door, more secure
	Double magnetron continuous microwave emission technology, the top microwave emission ensures temperature uniformity
	7-inch super large color touch screen controller, available to edit, modify and store various for digestion programs
	Corrosion-resistant centrifugal exhaust fan, discharge acid mist in time, avoid internal corrosion of equipment and prolong the service life
Application	Routine samples: biological and environmental samples, soil, agricultural products food, daily Chemicals, seafood, cosmetic, pharmaceutical samples other harder-to-digest samples

Microwave Digestion Tube		
	Liner	TFM
	Out Tank	PEEK
	Volume	56ml
	Max Design Temperature	Up to 300 °C
	Max Design Pressure	15Mpa

Ancillary Facilities			
			
Torque Tool	Shelf	PFA Cleaning Tank	Hotblock Digestion System

M.A.R.S Series Vessels		H.V.T Series Vessels	
			
24-bit,40-bit	12-bit	24-bit,41-bit,24-bit	
E.T.H.O.S Series Vessels		Other Series Vessels and Sleeve	
			
10-bit,12-bit,41-bit,44-bit		A variety of vessels and sleeves can be customized	

PFA Bottles are ultraclean, giving a lower trace metal background, smoother surface finish, and superior sealing compared with other fluoropolymer bottles.

PFA Bottle With Narrow Closure				
NO.	Size	Mouth ID(mm)	Body OD(mm)	H(mm)
1	30ml	14	32	69
2	60ml	14	39	88
3	100ml	22	49	101
4	125ml	18	49	117
PFA Bottle With GL32 Closure				
6	125ml	25	49	117
7	250ml	25	63	132
8	300ml	25	71	142
9	500ml	25	77	166
10	1000ml	25	100	250
PFA Bottle With Wide Closure				
1	100ml	33	39	95
PFA Bottle With GL45 Closure				
2	250ml	35	64	141
3	300ml	35	71	143
4	500ml	35	77	170
5	1000ml	35	97	204
6	2000ml	35	130	230
PFA High Capacity Bottle				
7	3000ml	50	155	270
8	4000ml	48	148	302
9	5000ml	50	175	305



PFA Volumetric Flask	
Size	10,25,50,100,250,500,1000ml
Feature	Class A, translucent, visible
Temperature	-200 to +260°C (-328°F to +500°F)
Advantage	Ultra-low trace metal background
	Strong acid and alkali resistance
	Threaded cover prevents contamination



PFA Beaker	
Size	10,30,50,100,250,500,1000,2000ml
Feature	Graduated, translucent, visible
Temperature	-200 to 260°C (-328°F to +500°F)
Advantage	Strong acid and alkali resistance
	Ultra-low trace metal background
	Smoother surface and no adsorption















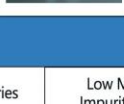












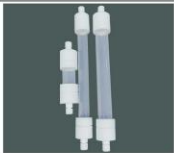




PFA Jar	
Size	15,22,30,40,60,90,120,150,180,240,250,300,350,500,1000,4000,6000ml
Feature	Strong sealing and reusable
Temperature	-200 to 260°C (-328°F to +500°F)
Advantage	Ultra-low trace metal background
	Rarely metal ions are leached and precipitated
	Strong acid and alkali resistance

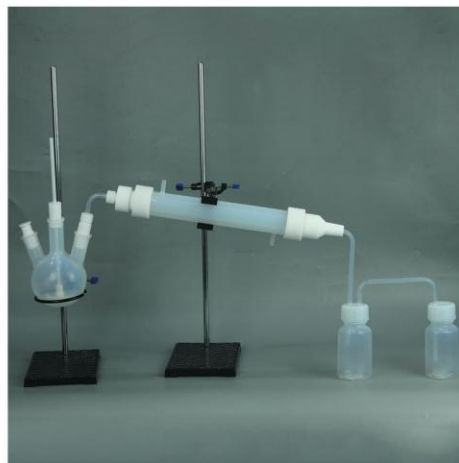


PFA Wash Bottle	PFA Gas Wash Bottle	PFA Dropper Bottle (For fine droplet control)	PFA Headspace Bottle	PFA Erlenmeyer Flask
				
Size: 60,100,250,300,500,1000ml	Size:100,250,300,500,1000,2000,3000ml	Size: 30,60ml	Size: 50ml, 100ml	Size: 100,250,500ml
PFA Tweezers	PFA Spoon (For adding samples)	PFA Tongs/Crucible	PFA Cylinder/ Measuring Cup	PFA Test Tube
				
Size: 100,120,150,180mm	Size: 180,20ml	Tongs:295mm, Crucible:20,30,50,100,250,500ml	Size: 5,10,25,30,50,100,200,250,500,1000,2000ml	Size: 15ml, 20ml













PFA Valve/Tube/Connector  Size: 1/8,1/4,3/8,1/2, made-to-order	PFA Pipette Tip/ Volumetric Pipette  Size: 0.1,0.2, 1.5,10/25,50ml	PFA Sampler/ Syringe  Size: 10ml, 20ml	PFA Centrifuge Tube  Size: 50ml	PFA Burette  Size: 30ml, 50ml
PFA Wafer Carrier/ Clamp  Size: Suitable for 2" ,3" ,4" ,6" ,8" wafers	PFA Level Gauge  Size: made to order	PFA Separating Funnel  Size:125,250,500, 1000,2000ml	PFA Triangular Funnel  Size: 40mm, 80mm, 160mm	PFA Shovel  Size: 165*57*31mm
PFA Square Jar  Made to order	PFA Tray  Size: 340*240*45mm 400*300*42mm	FEP Bailer  Size: 1L	Teflon Sampling Spoon  Size: 10,30,50,100ml	PTFE Sampler/ Syringe  Size: 5 to 2000ml
PTFE Bottle  Size:1L,2L,3L,4L, 5L	PTFE Barrel  Size: 5L to 30L	PTFE Suction Filter Bottle  Made to order	PTFE Overflow Tank  Made to order	PTFE Cleaning Tank  Size: made to order
PTFE Cleaning Rack/ Basket  Made to order	PTFE Wafer Cassette  Made to order	PTFE Shovel/ Scraper  Made to order	More  Made to order	PEEK Product  Made to order

Gas Washing/Filtration/Purification/Reaction/Absorption		
		
		
		
		
		
		
		
		
		
		
Connected In Series	Low Metal Ion Impurity Content	Transparent And Visible
		
Ion Exchange	Support Customization	PTFE Purification Column
		
<p>The PFA hydrogen absorption device is used in experiments to detect metal impurities in hydrogen, fluorine and other gases, and is used in the semiconductor industry.</p> <p>It consists of three 60ml PFA reaction bottles, connected to 1/4-inch pipes, and equipped with a PFA valve to control the flow rate.</p> <p>Features:</p> <ol style="list-style-type: none"> 1. The appearance is translucent, making it easy to observe the reaction of the experiment. 2. Made of high-purity PFA material, the inner and outer walls are smooth and clean without adsorption or adhesion. 3. Resistant to corrosion, strong acid and alkali, aqua regia, magic acid and other organic solvents 4. Can withstand high and low temperatures, withstanding -200°C to 260°C (Under normal pressure). 5. The background value is low, Low metal ion impurity content (the lead and uranium content is less than 0.01ppb). 6. Can be reused multiple times and supports customization. <p>PFA Filter Columns</p> <p>PFA filter columns are mainly used in pharmaceutical, chemical, semiconductor, optoelectronics and other industries to filter gas or liquid, remove impurities, and improve product purity.</p> <p>★★★Support the design, production, processing, mold opening, welding and customization of PFA products and PTFE products.</p>		

Teflon Distillation Condensation Device



- 1. Extremely high chemical inertness and corrosion resistance:** Resistant to HF, HCl, aqua regia and various organic solvents.
- 2. The background value of metallic elements is extremely low:** Made of high-purity PFA and PTFE materials, the reaction, distillation, condensation, and collection processes are carried out in a very clean container.
- 3. It is resistant to high temperatures and can draw negative pressure under certain conditions.**

Name	Application	PFA	PTFE	More
Flask	Heating, distillation, reaction vessel			
Constant pressure dropping funnel	Controlled dosing			
Condenser Tube	Gas condensation			
Absorption bottle	Collect samples/filter/react			

Rotary Evaporator



The rotary evaporator is mainly used for continuous distillation of large amounts of volatile solvents under reduced pressure conditions. Especially for the concentration of extraction liquids and the distillation of the receiving liquid during chromatographic separation, in order to achieve the purpose of separating and purifying products, it is an essential basic instrument for the development and analysis of experiments used for concentration, drying, and recovery of products.

Parameter Details

PFA Distillation bottle capacity	500/1000ml
PFA Collection bottle capacity	500/1000ml
Features	Not adhering to the sample, low blank value of metal elements
PFA Condenser	80mm diameter
Teflon feeding port	With valve
PFA water storage tank	Connect condensate water
PFA Condenser	Double spiral condenser tube
Corrosion resistance	Resistant to strong acids and bases (such as aqua regia and HF), as well as various organic solvents
Temperature resistance (°C)	-200 ~ +260°C
Vacuum sealing	Dual sealing with PTFE and fluororubber ring
Motor control	Variable frequency speed control LCD display
Rotating speed	0-120rpm
Motor Power	40w
Interface display	LCD digital display
Temperature control range	Room temperature~200 °C
Temperature control accuracy	±1°C
Temperature control method	PID
Heating power	1500w
Evaporation rate (ml/min)	water≈20
Heating method	Water and oil dual-purpose bath pot
Security	Overload, overvoltage, overcurrent protection
Voltage	220V/50Hz