BIOSPECTRIX PVT LTD

BioSpectrix

LABORATORY INSTRUMENTS

Innovative Solutions for Advanced Research & Testing

- Stirrer
- Mixing
- Heating
- Vacuum Application
- Chamber
- Extraction
- Sterilization
- Ultrapure Water System
- Centrifuge
- Viscometer



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STIRRER

- Mini Magnetic Stirrer
- Magnetic Stirrer Hot Plate
- Overhead Stirrer
- Homogenizer

MIXING

- Mini Vortex Mixer
- Vortex Mixer

HEATING

- Oil Bath
- Water Bath

VACUUM APPLICATION

- Vacuum Pump

CHAMBER

- Drying Oven
- Vacuum Drying Oven
- Incubator

EXTRACTION

- Solid Phase Extraction

STERILIZATION

- Infrared Sterilizer

ULTRAPURE WATER SYSTEM

- Ultrapure Water System

CENTRIFUGE

- Low-speed Centrifuge

VISCOMETER

- Viscometer
- High-viscosity Viscometer

Magnetic Stirrer (Hot Plate)

Magnetic Stirrer (Hot Plate) is designed for mixing low-viscosity liquids or solids in applications such as chemical synthesis, physical and chemical analysis, and biopharmaceutical research. XIUILAB offers multiple series with heating temperatures ranging from 260 °C to 350 °C.

Series	Model	Product Image	Display	Working Plate Size	Max. Heating Temp	Max. Stirrer Volume(H_2O)	Page
MS	MS-1L(S)		/	130*130mm	/	1L	02
	MS-2L(S)		/	130*130mm	/	2L	02
	MS-5L(S)		/	135*135mm	/	5L	02
	MS-5L Plus		LED	135*135mm	/	5L	02
MSE	MSE-S10L		LCD	140*140mm	/	10L	03
	MSE-H320		/	150*150mm	320°C	5L	03
	MSE-HS300		LCD	150*150mm	300°C	5L	03
	MSE-HS320		LCD	150*150mm	320°C	10L	03
MS	MS-H320		/	135*135mm	320°C	20L	04
	MS-HS320		LED	135*135mm	320°C	20L	04
	MS-HS350 -PRO		LED	135*135mm	350°C	20L	04
MS	MS-HS320F		LED	150*150mm	320°C	20L	06
	MS-HS350F -PRO		LED	150*150mm	350°C	20L	06

Application by Series

Series	Typical Applications
MS Mini Magnetic Stirrer	Routine mixing, reagent preparation, teaching laboratories
MSE Heating Magnetic Stirrer	Chemical reactions, reagent heating, sample digestion
MS High-Power Magnetic Stirrer	High-temperature reactions, high-viscosity mixing, material synthesis

MINI MAGNETIC STIRRER

MS Series



Product Overview

MS Series Mini Magnetic Stirrer is designed for routine liquid mixing in laboratories, suitable for chemical analysis, biological reagent preparation, and general laboratory applications.

Key Features

- Brushless DC motor ensures smooth stepless speed control with stable performance and low-noise operation.
- 4200 Gauss magnetic coupling provides strong drive force for the stir bar, improving overall mixing efficiency.
- Full aluminum alloy housing delivers excellent structural strength, corrosion resistance, and long service life.
- ABS+PC engineering plastic housing offers high chemical resistance and strong mechanical stability.
- Fully enclosed tempered glass top provides excellent chemical resistance, durability, and easy cleaning.

Specifications

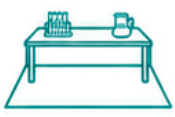
Model	MS-1L(S)	MS-2L(S)	MS-5L(S)	MS-5L PLUS
Image				
Voltage	100-240V 50-60Hz			
Power	6W		8W	
Control	Knob			
Display Content	/			Speed,time
Motor Type	Brushless motor			
Working Plate Size(mm)	130*130	130*130	135*135	
Working Plate Material	Glass			
Shell Material	ABS		Aluminum alloy	
Max Stirrer H2O Volume (L)	1	2	3-5	
Speed Range (Rpm)	200-1999			
Magnet Size(mm)	30			
Stirrer Direction	Clockwise			
Product Size(mm)	135*135*40			

The models with "S" are rechargeable.

Typical Applications



Laboratory routine mixing



Teaching laboratories



Environmental testing



Food laboratories



Cosmetic laboratories

MAGNETIC STIRRER HOT PLATE

MSE SERIES

Product Overview

MSE Magnetic Stirrer enables efficient mixing of liquids and solid-liquid samples. The integrated heating and temperature control system ensures reliable stirring and precise thermal management for routine laboratory applications.



Key Features

- LCD display shows both set and real-time operating values for clear monitoring.
- Brushless DC motor ensures smooth stepless speed control with low-noise operation.
- Multi-mode operation maintains stable stirring under different conditions.
- Bidirectional and programmable control enables automatic direction switching.
- High-temperature resistant magnet provides strong torque for efficient stirring.

Specifications

Model	MSE-S10L	MSE-H320	MSE-HS300	MSE-HS320
Image				
Voltage	AC220 50Hz			
Power	20W	450W		
Display Content	LCD	/	LCD	
Speed Range (rpm)	100–1600		100–2000	
Temperature Range(℃)	/	RT–320	RT–300	RT–320
Temperature Acuurancy	/		Working Plate:±1℃ Solution: RT–100℃: ±0.5℃; >100℃: ±1℃	
Working Plate Size(mm)	140*140	150*150		
Working Plate Material	Tempered Glass	CNC Cast aluminum + ceramic corrosion resistant coating		
Maximum Stirring H2O Volume (L)	10	5		10
Timing Function	1–99h59min	/	1–99h59min	
Motor Type	DC Brushless motor			

Typical Applications

- Chemical synthesis and organic reactions
- Reagent heating and solution preparation
- Sample digestion and pretreatment
- Pharmaceutical research and formulation development
- Material synthesis and polymer dissolution
- Environmental sample preparation and analysis

MAGNETIC STIRRER HOT PLATE

MS-H SERIES

Product Overview

MS-H Series Magnetic Stirrer combines reliable stirring with precise temperature control, providing efficient mixing of liquids and solid-liquid samples for routine and advanced laboratory applications.



Key Features

- Heating temperature up to 350 °C provides precise and stable thermal control for demanding laboratory applications.
- CNC cast aluminum working plate with ceramic corrosion-resistant coating offers excellent durability and chemical resistance.
- LCD display on advanced models provides clear parameter monitoring with timer function and RS485 communication interface.
- High-performance brushless DC motor enables powerful stirring up to 20 L, ensuring smooth, quiet, and maintenance-free operation.

Specifications

Model	MS-H320	MS-HS320	MS-HS350-Pro
Image			
Voltage	AC110V/220V 50Hz		
Power	500W		
Display Content	/	LCD High-Definition Color Screen	
Speed Range (rpm)	100–2000		
Temperature Range(°C)	Working Plate: RT–320		Working Plate: RT–350
Temperature Accuracy	Working Plate:±1°C Solution: RT–100°C: ±0.5°C; >100°C: ±1°C		
Working Plate Size(mm)	135		
Working Plate Material	CNC Cast aluminum + ceramic corrosion resistant coating		
Shell Material	Aluminum		
Maximum Stirring H2O Volume (L)	20		
Control Method	Stepless speed regulation		
Timing Function	1–99h59min		
Switch	/	Yes	
RS485	/		Yes
Program Control	/	Yes	
Residual Heat Warning	Light	Screen interaction	
Magnet Size (mm)	ϕ8*30		
Motor Type	DC Brushless motor		

Typical Applications

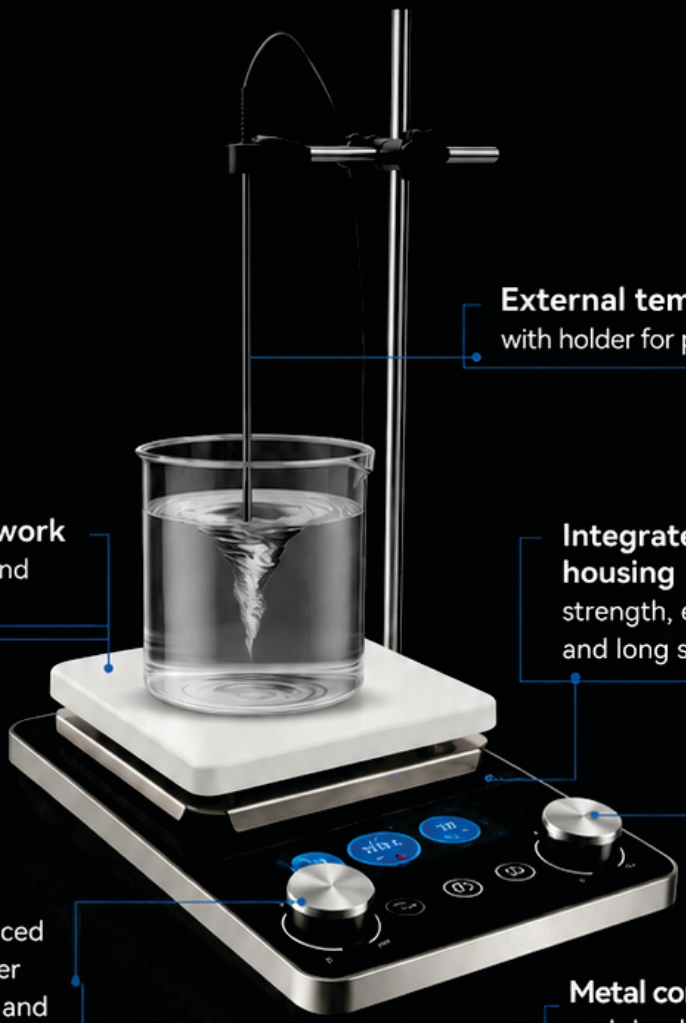
- Chemical synthesis and organic reactions
- Reagent heating and solution preparation
- Sample digestion and pretreatment
- Pharmaceutical research and formulation development
- Material synthesis and polymer dissolution
- Environmental sample preparation and analysis

BIOSPECTRIX

ADVANCED LABORATORY SOLUTIONS

MAGNETIC STIRRER HOT PLATE

MS SERIES



External temperature probe with holder for precise thermal control

Ceramic-coated aluminum work plate with rapid heat transfer and corrosion resistance

Integrated die-cast aluminum housing provides high structural strength, excellent heat dissipation, and long service life.

Vivid LCD display on advanced models provides clear parameter monitoring with timer function and RS485 communication interface.

Metal control knobs ensure precise and durable parameter adjustment.

Features

- Heating temperature up to 350°C provides precise and stable thermal control for demanding laboratory applications.
- CNC cast aluminum working plate with ceramic corrosion-resistant coating offers excellent durability and chemical resistance.
- LCD display on advanced models provides clear parameter monitoring with timer function and RS485 communication interface.
- High-performance brushless DC motor enables powerful stirring up to 20 L, ensuring smooth, quiet, and maintenance-free operation.

SPECIFICATIONS

Model	BS-MS-HS320F	BS-MS-HS350F-Pro
Image		
Voltage	AC110V/220V 50Hz	
Power	500W	
Display Content	LCD High-Definition Color Screen	
Speed Range (rpm)	100-2000	
Temperature Range(°C)	Working Plate: RT-320	Working Plate: RT-350
Temperature Acuurancy	Working Plate: ±1°C Solution: RT-100°C: ±0.5°C; >100°C: ±1°C	
Working Plate Size(mm)	150	
Working Plate Material	CNC Cast aluminum + ceramic corrosion resistant coating	
Shell Material	Aluminum	
Maximum Stirring H2O Volume (L)	20	
Control Method	Stepless speed regulation	
Timing Function	1-99h59min	
Switch	Yes	
RS485	/	Yes
Program Control	Yes	
Residual Heat Warning	Screen interaction	
Magnet Size(mm)	Φ8*30	
Motor Type	DC Brushless motor	

TYPICAL APPLICATIONS



Chemical synthesis and organic reactions



Reagent heating and solution preparation



Sample digestion and laboratory pretreatment



Pharmaceutical research and formulation development



Material synthesis and polymer dissolution



Environmental sample preparation and analysis

Overhead Stirrer

Overheads stirrers are used for mixing medium– to high–viscosity samples and are widely used in industries such as chemical synthesis, pharmaceutical synthesis, physicochemical analysis, and petrochemicals.

Series	Model	Product Image	Max.Stirrer Volume (H20)	Speed Range	Max. Torque	Viscosity Max.
EOS	BS-EOS-60SH		20L	100–2000rpm	10	10000mpa.s
	BS-EOS-120SH		40L	100–2000rpm	18	20000mpa.s
	BS-ESO-200SH		60L	100–2000rpm	25	50000mpa.s
	BS-EOS-60PLUS		20L	60–2000rpm	25	10000mpa.s
	BS-EOS-120PLUS		40L	60–2000rpm	35	50000mpa.s
	BS-EOS-200PLUS		60L	60–2000rpm	50	80000mpa.s
RWX	BS-RWX-120PRO		50L	35–2200rpm	50	50000mpa.s
	BS-RWX-150PRO		70L	35–2200rpm	70	50000mpa.s
	BS-RWX-200PRO		100L	35–2200rpm	100	150000mpa.s

Homogenizer

Homogenizer is designed for homogenization, dispersion, emulsification and mixing in routine laboratory applications.

Series	Model	Product Image	Max.Stirrer Volume (H20)	Speed Range	Max. Torque	Viscosity Max.
YJ	BS-YJ-1		0–35000rpm	6	0.1–250ml	5500mpa.s
	BS-YJ-2		5000–28000rpm	6	0.2–250ml	2000mpa.s
	BS-YJ-3		0–35000rpm	6	0.1–250ml	5000mpa.s
	BS-YJ-6		10000–30000rpm	6	0.5–250ml	11000mpa.s

Overhead Stirrer

EOS SERIES



Product Overview

EOS Series Overhead Stirrer ensures reliable mixing from low to high viscosity liquids, with high torque and stable performance for demanding and large-volume applications.

Key Features

- High-torque motor ensures stable mixing under high-viscosity conditions.
- Precision collet enables secure and accurate shaft installation.
- Microprocessor control provides overload protection and parameter memory.
- LCD display offers clear and intuitive operation feedback.
- Reinforced structure ensures stability for large-volume processing.

Specifications

Model	BS-EOS-60SH	BS-EOS-120SH	BS-ES0-200SH	BS-EOS-60Plus	BS-EOS-120Plus	BS-EOS-200Plus
Image						
Voltage	AC100–240V 50–60Hz					
Power	72W	120W	200W	72W	120W	200W
Display Model	LCD display					
Timing Function	1min–99h59min					
Speed Range (rpm)	100–2000			60–2000		
Accuracy (rpm)	±1					
Max Stirring H2O Volume (L)	20	40	60	20	40	60
Max Stirring Viscosity (mPa.s)	10000	20000	50000	10000	50000	80000
Motor Type	Permanent Magnet Motor			Brushless Motor		
Switch Function	/			Yes		

Typical Applications



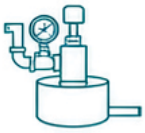
High-viscosity liquid mixing



Polymer and material synthesis



Pharmaceutical formulation



Chemical processing



Pilot-scale laboratory experiments

Overhead Stirrer

RWX SERIES



Product Overview

RWX Series Overhead Stirrer is designed for high-torque mixing of low to high viscosity liquids, delivering powerful and stable performance for demanding and large-volume laboratory applications.

Key Features

- High-performance brushless DC motor delivers enhanced torque for handling high-viscosity and complex sample systems.
- Top-mounted feed-through structure enables smooth and precise vertical adjustment of the stirring shaft.
- Self-locking precision chuck ensures secure and accurate installation under high-load conditions.
- Full-view color LCD with tempered glass panel provides clear, intuitive and real-time operation feedback.
- Reinforced base with dedicated clamp ensures superior stability for high-torque and large-volume processing.

Specifications

Model	BS-RWX-120PRO	BS-RWX-150PRO	BS-RWX-200PRO
Image			
Voltage	AC100–240V 50–60Hz		
Power	120W	150W	200W
Display Model	LCD display		
Timing Function	1min–99h59min		
Speed Range (rpm)	35–2200		
Accuracy (rpm)	±1		
Max Stirring H2O Volume (L)	50	70	100
Max Torque(N.cm)	50	70	100
Max Stirring Viscosity (mPa.s)	50000	80000	150000
Motor Type	DC Brushless motor		
Switch Function	Yes		

Optional RS485 Programmable Control

Typical Applications


High-viscosity liquid mixing


Polymer and high-molecular material synthesis


Pharmaceutical formulation and scale-up


Chemical process development


Pilot-scale and industrial laboratory applications

Homogenizer

YJ Series



Product Overview

YJ Series Homogenizer is designed for reliable homogenization of small-volume samples, combining handheld flexibiiity with stable bench-top operation for routine laboratory applications.

Key Features

- Portable and bench-top design supports flexible handheld and stand-mounted operation.
- Detachable shaft allows easy removal, cleaning and replacement.
- Six-step speed control enables precise adjustment for different sample viscosities.
- Suitable for small-volume homogenization, dispersion, emulsification and mixing.
- 316 stainless steel shaft sleeve ensures corrosion resistance and long-term durability.

Specifications

Model	BS-YJ-1	BS-YJ-2 (Charge)	BS-YJ-3
Image			
Voltage	AC220V 50Hz	AC100–240V 50–60Hz	AC220V 50Hz
Power	145	/	160
Speed level	6		
Speed Range (rpm)	0–35000	500–28000	0–35000
Continuous Operation Time	≤10 min		
Processing Volume (ml)	0.5–50mL (Dispersing shaft DS–6) 1–100mL (Dispersing shaft DS–8) 5–250mL (Dispersing shaft DS–10)		
Max Stirring Viscosity (mPa.s)	5500	2000	5000
Motor Type	DC Brushless motor		

DS–6 — Volume: 0.5–50ml

Max. Circum.Speed:6m/sec
Material:SUS316L
Application: small amounts of solid liquid mixed
Function: dispersing tool for solid/liquid media



DS–8 — Volume: 1–100ml

Max. Circum.Speed:8m/sec
Material:SUS316L
Application: small amounts of solid liquid mixed
Function: dispersing tool for solid/liquid media



DS–10 — Volume: 5–250ml

Max. Circum.Speed:10m/sec
Material:SUS316L
Application: small amounts of solid liquid mixed
Function: dispersing tool for solid/liquid media



Typical Applications



Animal and plant tissue homogenization



Bacteria and yeast sample disruption



Biological sample emulsification and suspension



Small-volume sample preparation



Routine laboratory homogenization tasks

Homogenizer

YJ-6



Product Overview

The high shear homogenizer is designed for high-capacity homogenization of liquid and low- to medium-viscosity samples. With a processing range of 0.5–30 L and a powerful 1300 W motor, it provides efficient and stable performance for laboratory scale-up, pilot processing and routine large-volume sample preparation.

Key Features

- High-capacity processing from 0.5–30 L.
- 1300 W motor for stable and powerful operation.
- Stepless speed control with 6-level adjustment.
- 316 stainless steel shaft for corrosion resistance and durability.
- Suitable for homogenization, dispersion and emulsification.

Specifications

Model	BS-YJ-6
Image	
Voltage	250V 50Hz
Power	1300W
Speed level	6
Speed Range (rpm)	10000–30000rpm
Processing Capacity (H_2O)	0.5–20L (Dispersing shaft DS-20) 0.5–30L (Dispersing shaft DS-25) 0.5–50L (Dispersing shaft DS-35)
Stand Material	304 Stainless Steel
Working Head Size (Dia.×Length)	Standard: Φ25×240mm /Optional: Φ20/35×240mm
Immersion Depth of Working Head	180mm
Working Head Material	316 Stainless Steel

DS-20 Max.Volume:30L

Max. Circum.Speed:20m/sec
Material:SUS316L
Application: Routine sample homogenization and dispersion.
Function: For emulsification and solid/liquid dispersion.



DS-25 Max.Volume:20L

Max. Circum.Speed:25m/sec
Material:SUS316L
Application: Suspension, emulsion, pigment and resin dispersion.
Function: For homogenization and deagglomeration.



DS-35 Max.Volume:50L

Max. Circum.Speed:35m/sec
Material:SUS316L
Application: Large-volume tissue, pigment and emulsion processing.
Function: For high-capacity homogenization and dispersion.



Typical Applications



Routine homogenization, emulsification, deagglomeration and dispersion



Dispersion of substances to form suspensions and emulsions



Dispersion of pigments and resins



Dispersion of animal or human tissue in various solutions



Formulation research for emulsions, creams, cosmetics and food products

Overhead Stirrer provides a variety of stirring tools, such as impellers, paddles and blades:

Model	Four Blades Stirring Paddle							
Image								
Blade Width (mm)	50	60	70	80	60	80	60	80
Shaft Length (mm)	300	300	300	300	350	350	400	400
Shaft Diameter (mm)	8	8	8	8	8	8	8	8

Model	Three Blades Stirring Paddle							
Image								
Blade Width (mm)	50	60	70	80	60	80	60	80
Shaft Length (mm)	300	300	300	300	350	350	400	400
Shaft Diameter (mm)	8	8	8	8	8	8	8	8

Model	Dissolver Stirring Paddle										
Image											
Blade Width (mm)	30	40	50	60	70	80	30	50	80	60	100
Shaft Length (mm)	300	300	300	300	300	300	350	350	400	400	400
Shaft Diameter (mm)	9	8	8	8	8	8	8	8	8	8	8

Model	Anchor Stirring Paddle						
Image							
Blade Width (mm)	40	50	60	70	80	90	100
Shaft Length (mm)	300	300	300	300	350	350	400
Shaft Diameter (mm)	8	8	8	8	8	8	8

Model	Sawtooth Dispersion Stirring Paddle						
Image							
Blade Width (mm)	40	50	60	70	80	90	100
Shaft Length (mm)	300	300	300	300	350	350	400
Shaft Diameter (mm)	8	8	8	8	8	8	8

Model	Flat Blade Stirring Paddle			
Image				
Blade Width (mm)	40	50	60	80
Shaft Length (mm)	300	300	350	350
Shaft Diameter (mm)	8	8	8	8

Paddle Selection Guide

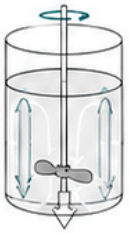
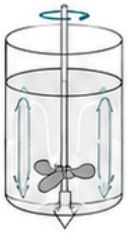
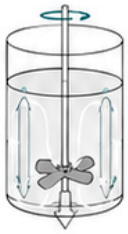
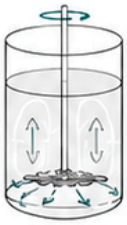
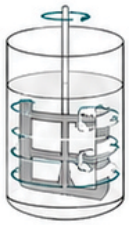
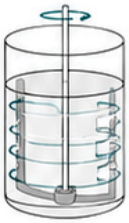
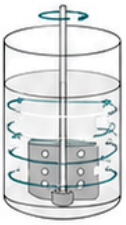
Choose The Right Impeller To Achieve Optimal Mixing Performance For Your Application

AXIAL
Flow Parallel To The Shaft Optimal Top-To-Bottom Circulation.

RADIAL
Flow Moves Outward From The Center, High Shear And Dispersion

TANGENTIAL
Flow In Circular Direction, Ideal For Wall Scraping And High-Viscosity Mixing

Specifications

Name	Propeller 2-Bladed	Propeller 3-Bladed	Propeller 4-Bladed	Dissolver	Frame	Anchor	Flat Blade Paddle
Image							
Flow direction (Diagram)							
Tip speed / circumferential speed (m/s)	2 – 15	2 – 15	2 – 15	8 – 20	1 – 5	1 – 5	1 – 3
Direction	AXIAL	AXIAL	AXIAL	RADIAL	TANGENTIAL	TANGENTIAL	TANGENTIAL
Mixing speed	Medium – high	Medium – high	Medium – high	Medium – high	Low	Low	Low – medium
Shear forces	Low	Medium	Medium	Very High	Low	Low	Low
Viscosity	Low	Low – medium	Low – medium	Low	High	High	Medium – high
Applications	• Biological samples • Foam-sensitive systems • Low-shear processes (e.g., pre-treatment for cell culture)	• Dissolving solids (salts, powders) • Rapid mixing reactions • Small-volume laboratory solutions	• Biochemical reaction liquids • Fermentation broths • General chemical reactions	• Powder dissolution • Pigment dispersion • Emulsion preparation • Rapid laboratory mixing	• Medium to high viscosity liquids • Industrial reaction tanks • Batch mixing processes • Coatings and resin systems	• Colloids, pastes, emulsions • Cosmetics (creams, lotions) • Pharmaceutical products (ointments, gels) • High-viscosity chemical liquids	• Aqueous solutions, buffer solutions • Chemical reagent mixing • Small-scale laboratory reactions

NOTE: Consider Fluid Properties, Vessel Geometry, And Process Goals When Selecting The right Impeller.

Vortex Mixer

Vortex Mixer designed for efficient sample mixing in routine laboratory applications, with reliable performance for tubes, vials and small-volume vessels.

Series	Model	Product Image	Speed Range	Control	Press Vibration	Page
908	908-60A		8000rpm	/	Inching	14
	908-60B		8000rpm	/	Inching	14
DI series	Vortex DI SE		3000rpm	/	Inching	15
	Vortex DI		4000rpm	/	Inching	15
	Vortex DI Plus		500–4000rpm	Knob	Inching	15
X series	Vortex X0		200–3000rpm	Knob	Continuous	16
	Vortex X1		200–3000rpm	Knob	Inching+Continuous	16
	Vortex X2		100–3000rpm	Knob	Inching+Continuous	16
	Vortex X2 pro		100–4000rpm	Knob	Inching+Continuous	16

Application by Series

Item	908 Series	DI Series	X Series
Core Advantage	Compact, portable and fast	Stable bench-top operation	Multi-format and batch processing
Best For	Quick spot mixing	Routine daily laboratory use	Batch sample preparation
Sample Format	Single tube or small vial	Single tube or small vial	Vials, tubes, centrifuge tubes
Mixing Mode	Inching	Inching or variable-speed inching	Continuous + inching
Control	Simple touch activation	Touch or knob control	Knob control
Speed Range	Up to 8000 rpm	3000–4000 rpm, adjustable on Plus	60–4000 rpm depending on model
Portability	Highest	Medium	Lower
Batch Processing	No	Limited	Yes
Application Focus	Fast manual mixing	Routine tube mixing	Batch vial and tube mixing

MINI VORTEX MIXER

908 Series

Product Overview

908 Series Mini Vortex Mixer is designed for rapid and efficient mixing of small-volume samples, with compact structure, touch activation and high-speed vortex performance.



Key Features

- Touch activation control
- High-speed brushless motor up to 8000 rpm
- Compact and lightweight design
- Stable anti-vibration structure
- Rechargeable and corded versions available
- The mixer generates a vortex within 0.5 seconds

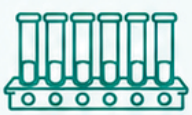
Specifications

Model	908-60A	908-60B
Image		
Type	Rechargeable	Corded
Voltage	AC100–240V 50–60Hz	
Power	12W	
Control	/	/
Battery Capacity	2000 mAh	/
Continuous Operation Time	300 min	/
Speed	8000 rpm	
Motor	Brushless Motor	
Dimensions	14 × 14 × 7.5 cm	
Motor Type	DC Brushless motor	DC Brushless motor

Typical Applications



Mixing of small-volume liquid samples



Reagent and buffer preparation



Sample resuspension in test tubes



Routine mixing in centrifuge tubes and flasks

MINI VORTEX MIXER

DI Series



Product Overview

DI Series Mini Vortex Mixer is designed for rapid and efficient mixing of small-volume liquid samples, suitable for routine laboratory applications in test tubes, centrifuge tubes and flasks.

Key Features

- Compact and easy to carry.
- DC Brushless motor, Powerful, maintenance-free.
- Imported silicone vibrating head for superior toughness.
- Rapidly rotates samples in under 5 seconds.
- Excellent instrument stability and low operating noise.

Specifications

Model	Vortex DI SE	Vortex DI	Vortex DI Plus
Image			
Voltage	AC100–240V 50–60Hz		
Power	12W		
Control	/		Knob
Speed Range (rpm)	3000	4000	500–4000
Circumferential Diameter(mm)	4.5		
Max Throughput(ml)	50		
Max Dimmeter of Test Tube(mm)	50		
Press Vibration	Inching		Inching+Speed Regulation
Motor Type	DC Brushless motor		

Typical Applications



Mixing of small-volume liquid samples



Reagent and buffer preparation



Sample resuspension in test tubes



Routine mixing in centrifuge tubes and flasks

Multi-Module Vortex Mixer

X Series

Product Overview

X Series Multi-Module Vortex Mixer is designed for efficient mixing of multiple sample formats in routine laboratory work.
With interchangeable modules, it is suitable for vials, test tubes, centrifuge tubes and other common vessels, enabling flexible and efficient batch processing.

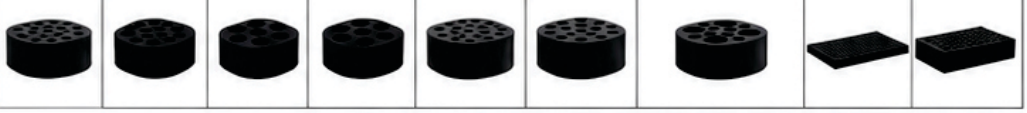


Key Features

- Suitable for both short-term (inching) and long-term continuous operation.
- Brushless DC motor, offering a long service life, powerful performance, and maintenance-free operation.
- Equipped with a dedicated vibration head, known for its high toughness, sufficient elasticity, and extended durability.
- Wide speed adjustment range, with a maximum speed of 4000 rpm, supports stepless speed regulation.
- Utilizes high-quality cushioning pads, ensuring excellent instrument stability and low operational noise.

Specifications

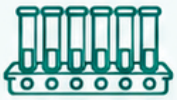
Model	Vortex X0	Vortex X1	Vortex X2	Vortex X2 pro
Image				
Voltage	AC100–240V 50–60Hz			
Power	24W		24W	30W
Speed Range (rpm)	200–3000	200–3000	100–3000	100–4000
Circumferential Diameter(mm)	4.5			
Max Throughput(ml)	50*4			
Max Dimmeter of Test Tube(mm)	30			
Timing Function	/		1–99min	
Motor Type	DC Brushless motor			

Module Size	12mm*21	18mm*24	22mm*7	26mm*7	12mm*20	15mm*16	22/23/25mm*4 +15mm*8	6mm*96	11mm*30 +8mm*20
Module Image									

Modules Can Be Customized

Typical Applications


Mixing of vials, test tubes and centrifuge tubes


Batch sample preparation in laboratories


Reagent and buffer mixing


Sample resuspension and liquid blending

Oil Bath

DF Series

Product Overview

DF Heat Collecting Magnetic Stirrer integrates heating, stirring and temperature control in one system. Featuring a PTFE-lined inner bath, it provides uniform heating, stable stirring and improved chemical resistance for routine laboratory applications.



Key Features

- PTFE-lined inner bath (pro model) provides excellent chemical resistance and easier cleaning during routine operation.
- PID temperature control with LED display allows clear monitoring of set and actual temperature.
- Heated bath structure ensures rapid and uniform heat distribution.
- DC motor enables smooth stepless speed adjustment with stable and low-noise operation.
- Strong magnetic coupling ensures reliable stirring performance.
- 304 stainless steel outer body provides durability and resistance to high-temperature laboratory conditions.

Specifications

Model	DF-101S-2L	DF-101S-3L	DF-101S-5L
Image			
Inner Material	304 stainless steel		
Voltage	AC220V 50Hz		
Heating Power	600W		1000W
Stirrer Power	20W		30W
Display	LED Display		
Speed Range (rpm)	200–2500		
Maximum Stirring H_2O Volume (L)	2	3	5
Temperature Range (°C)	RT–300 (The Temp can be customized)		
Temperature Accuracy (°C)	RT–200°C, ±0.5°C ; Above 200°C, ±1°C		
Pot Size Ø × H (mm)	220 × 90	220 × 105	255 × 130
Temperature Sensor	PT1000		
Magnetic Stirrer Bar Size (mm)	C: 8 × 30		
Timing Function	0–99h59min		
Motor Type	DC Brushless motor		

Model	DF-101S-2L Pro	DF-101S-3L Pro	DF-101S-5L Pro
Image			
Inner Material	PTFE		
Voltage	AC220V 50Hz		
Heating Power	800W		1200W
Stirrer Power	10W		12W
Display	LED Display		
Speed Range (rpm)	0–2500		
Maximum Stirring H_2O Volume (L)	2	3	5
Temperature Range (°C)	RT–300		
Temperature Accuracy (°C)	RT–200°C, ±0.5°C ; Above 200°C, ±1°C		
Pot Size Ø × H (mm)	220 × 90	220 × 105	225 × 130
Temperature Sensor	PT1000		
Magnetic Stirrer Bar Size (mm)	C: 8 × 30		
Timing Function	0–99h59min		
Motor Type	DC Brushless motor		

Intuitive Status Feedback System

Breathing Light Indicates Real-Time Operation



White light stays on steadily



Red light rotates



Blue light flashes

Typical Applications



Reagent Heating and Solution Preparation



Flask-Based Heating Applications



Corrosive Media Handling



Evaporation and Concentration Processes



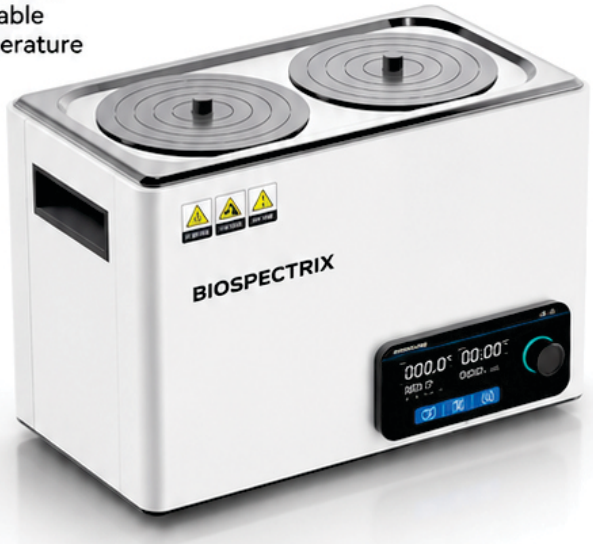
Biological and Pharmaceutical Solution Handling

Water Bath

WB Series

Product Overview

WB Series Water Bath is designed for precise and stable heating in routine laboratory applications. With a 304 stainless steel chamber, LCD temperature control and dry-run protection, it provides reliable performance for sample incubation, warming and constant temperature treatment.



Key Features

- 304 stainless steel chamber provides excellent corrosion resistance and long-term durability.
- Temperature range from RT to 100°C supports a wide range of laboratory heating applications.
- LCD display enables clear and convenient temperature monitoring.
- Dry-run protection improves operational safety by preventing heating without water.
- Stable heating performance ensures uniform temperature distribution for routine laboratory use.

Specifications

Model	HH-1 Pro	HH-2 Pro	HH-4 Pro	HH-6 Pro	HH-8 Pro
Image					
Voltage	220V				
Heating Power	300W	600W	800W	1200W	1500W
Display Content	LCD				
Temperature Range(℃)	RT–100				
Division Value(℃)	0.1				
Program Control	Yes				
Working Size(mm)	160*160*140	160*305*140	305*305*140	305*470*140	305*610*140

Typical Applications



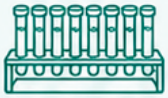
Sample warming and constant temperature treatment



Heating of reagents, buffer solutions and water-based samples



Incubation of test tubes, flasks and laboratory vessels



Routine biological, chemical and pharmaceutical laboratory use



General laboratory heating and sample preparation

Oil-Free Diaphragm Vacuum Pump

VP Series

Product Overview

VP Series Oil-Free Diaphragm Vacuum Pump is designed for clean, quiet and reliable vacuum generation, suitable for routine filtration, aspiration and continuous laboratory applications.



Key Features

- Oil-free operation for contamination-free vacuum applications.
- Fast filtration performance with stable pumping power.
- Low-noise design for routine laboratory use.
- Continuous operation up to 24 hours.
- Diaphragm-sealed chamber for reliable one-way gas flow and high vacuum performance.

Specifications

L Series

Model	VP-10L	VP-15L	VP-30L	VP-60L
Image				
Voltage	AC110–240V 50–60Hz			
Power	12W	35W	48W	72W
Voltage/Current	12V/1A	12V/3A	12V/4A	12V/6A
Type	Negative Pressure			
Display Model	Pressure Gauge			
Flow (L/min)	10	15	30	60
Maximum Vacuum (Mpa)	-0.085			-0.09
Pump Head	1			

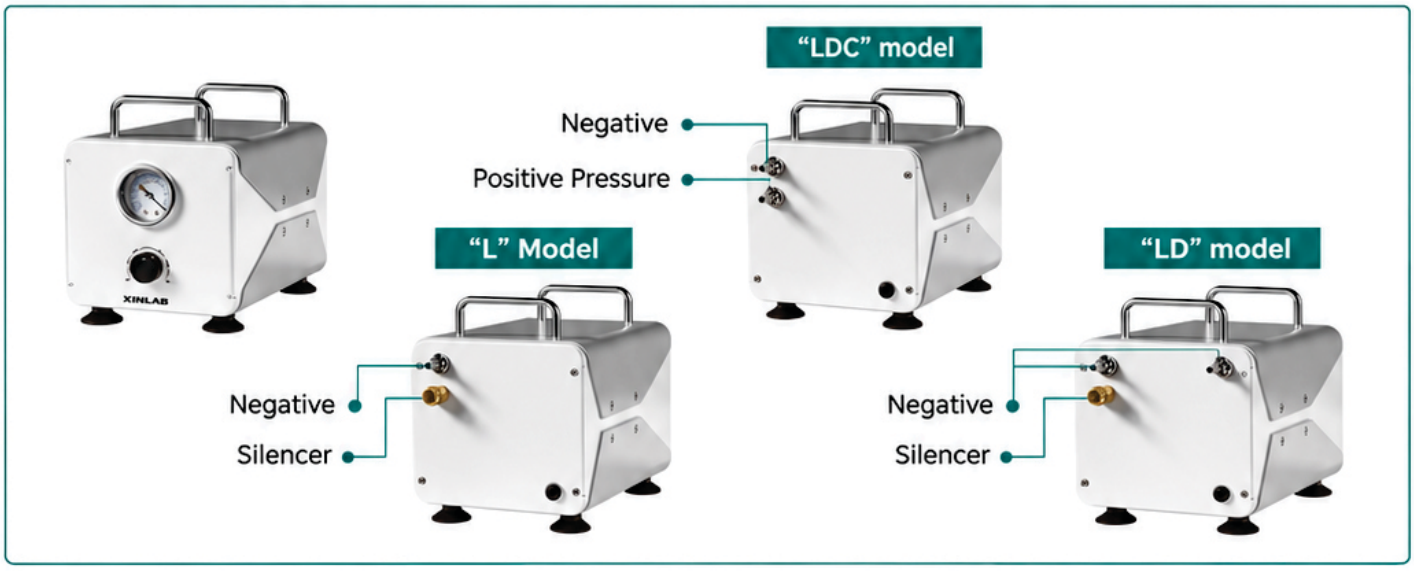
Typical Applications

- Easy to carry and convenient for flexible laboratory use.
- Sample filtration and aspiration.
- Sealed pump chamber ensures stable vacuum performance.
- Routine laboratory filtration and continuous operation.
- Compact design for multiple applications.

LD(C) Series

Model	VP-30LDC	VP-60LDC	VP-30LD	VP-60LD
Image				
Voltage	AC110-240V 50-60Hz			
Power	48W	72W	48W	72W
Voltage/Current	12V/4A	12V/6A	12V/6A	12V/6A
Type	Positive and Negative Pressure		Negative Pressure	
Display Model	Pressure Gauge			
Flow (L/min)	30	60	30	60
Maximum Vacuum(Mpa)	-0.085	-0.09	-0.085	-0.09
Positive Pressure	20.3psi (0.14Mpa)	26.8psi (0.185Mpa)	/	
Pump Head	1		2	

Pump Head



Typical Applications


Vacuum filtration of laboratory liquids


Solvent aspiration and waste liquid transfer


Support for solid phase extraction systems


Vacuum assistance for filtration manifolds and funnels


General negative-pressure applications in analytical laboratories

ELECTRIC AIR BLAST DRYING OVEN

DHG Series

Product Overview

The DHG electric drying ovens feature a precise temperature control system and are widely used in mechanical & electrical, chemical, plastic, light industry, and scientific research sectors for various baking, drying, curing, and heat treatment applications.





Key Features

- Rapid heating performance with a temperature range of 5–300°C and ramp-up speed up to 7°C/min.
- Standard models provide 5-level airflow adjustment, while Pro models offer 6-level airflow control for more flexible circulation settings.
- Industrial-grade PT1000 sensor ensures accurate and stable temperature control.
- 304 stainless steel chamber in Pro models improves corrosion resistance and long-term durability.
- Programmable 30-stage temperature profiles support complex thermal processing requirements.

Specifications

Model	DHG-9020AX DHG-9020BX	DHG-9020A DHG-9020B	DHG-9050A DHG-9050B	DHG-9070A DHG-9070B	DHG-9140A DHG-9140B	DHG-9220A DHG-9220B
Image						
Voltage	AC110–220V (110V need customization)					
Frequency (Hz)	50–60					
Power (W)	600	600	1000	1500	2000	3000
Display Mode	LCD					
Temperature Control Range (°C)	RT+5–300					
Temperature Control Accuracy (°C)	±0.5					
Temperature Uniformity (°C)	±2% (Test point is 100°C)					
Blast Function	/	Yes				
Timing Range	0–9999 min					
Working Size (mm)	250×250×250	250×250×250	350×350×350	350×450×450	450×550×550	500×600×700
Effective Volume (L)	15.6	15.6	42	70	136	210
Standard Number of Shelves	2					
Max. Number of Shelves	3	3	6	8	10	12
Bearing of Shelf (kg)	15					

Model B is 201 stainless steel liner, Model A is galvanized inner liner.

DHG-Pro Series

Model	DHG-9020B Pro	DHG-9050B Pro	DHG-9070B Pro	DHG-9140B Pro	DHG-9220B Pro
Image					
Voltage	AC110–220V (110V need customization)				
Frequency (Hz)	50–60				
Power (W)	600	1000	1500	2000	3000
Display Mode	LCD				
Temperature Contral Range (°C)	RT+5–300				
Temperature Control Accuracy (°C)	±0.5				
Temperature Uniformity (°C)	±2% (Test point is 100°C)				
Blast Function	Yes				
Timing Range	0–9999 min				
Working Size (mm)	250×250×250	350×350×350	350×450×450	450×550×550	500×600×700
Effective Volume (L)	15.6	42	70	136	210
Standard Number of Shelves	2				
Max. Number of Shelves	3	6	8	10	12
Bearing of Shelf (kg)	15 kg			30 kg	

DHG-Pro Series



DHG Series Cost-Effective Line

- **Efficient Wide-Range Temperature Control**
  Fast heating at 7°C/min
  Wide temperature range from RT+5°C to 300°C
- **Intelligent Safety Protection**
  Automatic power cut-off within 0.1s below safety threshold
  Alarm system to prevent overheating and fire risks
- **Adjustable Airflow**
  Fan speed levels: 1–5
- **Programmable Control**
  30-step temperature programming



DHG-Pro Series Flagship Line

- **304 Food-Grade Stainless Steel Chamber**
  High temperature resistance / Corrosion-resistant / Scratch-resistant / Easy to clean
- **LED Smart Control Interface**
  Clear operation logic with responsive control
- **Independent Fan Control**
  Adjustable fan speed: 0–5 levels
- **Interactive Status Light Ring**
  Real-time visual feedback of operating status

Typical Applications


Glassware and utensil drying


Powder and solid sample drying


Sample heat treatment


Laboratory material drying and storage


Routine laboratory thermal applications

Vacuum Drying Oven

DHG Series

Product Overview

The DZF Vacuum Drying Oven is designed for drying and heat treatment under vacuum conditions in laboratories, research institutes and industrial applications. Vacuum heating helps reduce drying temperature and time, while minimizing oxidation, particle contamination and thermal damage to heat-sensitive samples.



Key Features

- Double-layer tempered glass door allows clear observation and adjustable closing tightness.
- High-temperature silicone sealing ring ensures reliable chamber sealing and improved vacuum performance.
- Built-in leakage protection enhances operational safety.
- Intelligent safety protection system automatically cuts off power and alarms within 0.1 s below the safety threshold.
- Integrated 30-stage temperature programming supports complex thermal processing requirements.

Specifications

Model	DZF-6020A Pro DZF-6020B Pro	DZF-6050A Pro DZF-6050B Pro	DZF-6090B Pro	DZF-6210B Pro
Image				
Voltage	AC110–220V (110V need customization)			
Frequency(Hz)	50–60			
Power (W)	600	1200	1400	2000
Vacuum(pa)	< 133			
Temperature Control Range (℃)	RT+10–200			
Temperature Control Accuracy(℃)	±0.5			
Temperature Uniformity(℃)	±2% (Test point is 100℃)			
Timing Range	0-9999min			
Working Size (mm)	300×300×275	370×415×345	450×450×450	600×550×650
Effective Volume (L)	25	50	90	210
Standard Number of Shelves	2			
Bearing of Shelf(kg)	15 kg			

Model B is stainless steel liner, Model A is galvanized inner liner.

Typical Applications


Drying of heat-sensitive samples


Low-temperature vacuum drying


Drying of oxidizable materials


Biological and pharmaceutical sample treatment


Vacuum concentration and moisture removal

Incubator

DHP Series

Product Overview

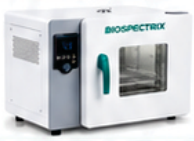
The DHP Series Incubator is designed for constant temperature incubation in routine laboratory applications. With precise temperature control and stable chamber conditions, it is suitable for bacterial cultivation, fermentationand other constant temperature experiments.



Key Features

- Temperature range from RT+5°C to 70°C supports a wide range of incubation applications.
- High-quality cold-rolled steel construction ensures durability and long-term reliability.
- Optimized temperature control system maintains stable and uniform chamber conditions.
- Six-level fan speed adjustment allows flexible air circulation control for different experimental requirements.
- User-friendly operation with low power consumption supports efficient daily laboratory use.

Specifications

Model	DHP-9020A(B)	DHP-9050A(B)	DHP-9070A(B)	DHP-9140A(B)	DHP-9220A(B)
Image					
Voltage	AC110–220V (110V need customization)				
Frequency (Hz)	50–60				
Power (W)	300	400	400	600	900
Display Mode	LCD				
Temperature Control Range (°C)	RT+5–70				
Temperature Control Accuracy (°C)	±0.5				
Timing Range	0–9999 min				
Working Size (mm)	250×250×250	350×350×350	350×450×450	450×550×550	500×600×700
Effective Volume (L)	15.6	42	70	136	210
Standard Number of Shelves	2				
Max. Number of Shelves	3	6	8	10	12
Bearing of Shelf (kg)	15 kg			30 kg	

Model B is stainless steel liner, Model A is galvanized inner liner.

Typical Applications

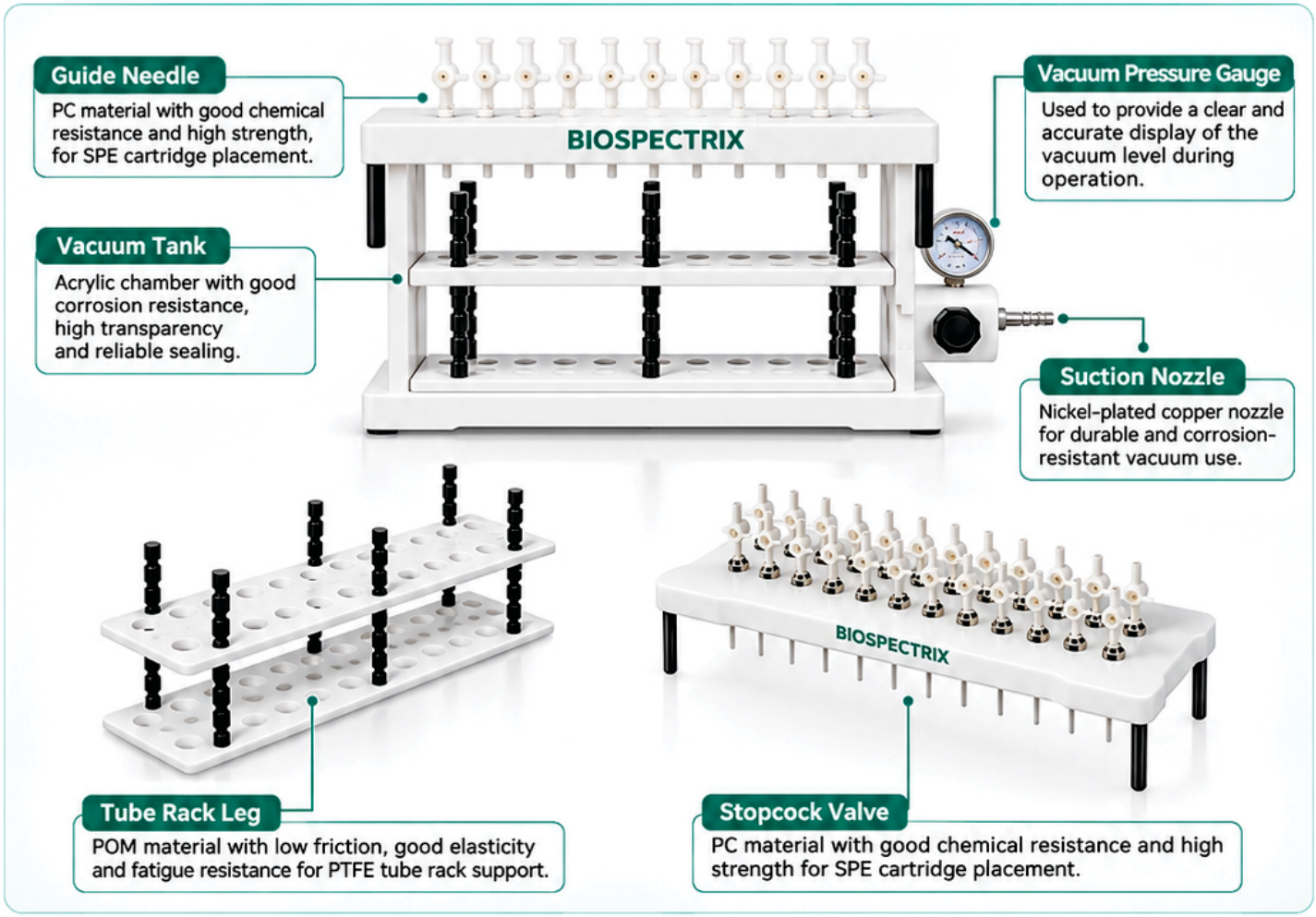
- Fermentation experiments
- Constant temperature storage
- Biological and chemical laboratory testing
- Bacterial cultivation and microbial incubation
- Seed germination and agricultural research

Solid Phase Extraction

SPE Series

Product Overview

SPE Solid Phase Extraction System is designed for efficient sample pretreatment and purification in analytical laboratories, providing stable and reliable operation for routine extraction applications.



Key Features

- **Independent flow control** for each channel enables flexible operation and improves extraction consistency.
- **Adjustable vacuum control** with pressure gauge allows real-time monitoring of vacuum level and extraction speed.
- **Corrosion-resistant guide needles** are available in POM, 316 stainless steel or PTFE for different extraction requirements.
- The standard SPE series features an **organic glass chamber**, offering a practical and cost-effective solution for routine laboratory applications.
- The SPE-TB series features an **integrated quartz glass chamber**, providing higher transparency, improved chemical resistance and better structural reliability.
- **Quartz glass construction** is better suited for corrosive media and demanding extraction conditions, while the standard organic glass version is ideal for routine sample pretreatment.
- **Pressure relief valve design** improves operational safety and system stability.

Specifications

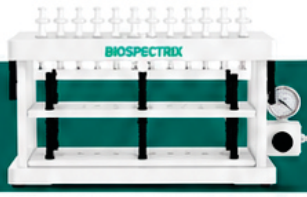
SPE Series

Model	XU-SPE-12	XU-SPE-24	XU-SPE-12G	XU-SPE-24G	XU-SPE-12F	XU-SPE-24F
Image						
Voltage	AC110–240V 50–60Hz					
Number of Positions	12	24	12	24	12	24
Test Tube Rack Diameter	Φ16 mm					
Guide Needle Material	POM		Stainless Steel		PTFE	
Chamber Dimensions (L × W × H)	298 × 80 × 145 mm					
Display Type	Pressure Gauge					
Pressure Gauge Range	0 to –0.1 MPa					
Vacuum Degree	–0.09 MPa					
Pressure Relief Valve	Yes					
Anti Cross-Contamination	No		Yes		No	

SPE-TB series

Model	XU-SPE-12TB	XU-SPE-24TB	XU-SPE-12TBG	XU-SPE-24TBG	XU-SPE-12TBF	XU-SPE-24TBF
Image						
Voltage	AC110–240V 50–60Hz					
Number of Positions	12	24	12	24	12	24
Test Tube Rack Diameter	Φ16 mm (Φ10 mm / Φ13 mm is optional)					
Guide Needle Material	POM		Stainless Steel		PTFE	
Chamber Dimensions (L × W × H)	270 × 75 × 165 mm					
Display Type	Pressure Gauge					
Pressure Gauge Range	0 to –0.1 MPa					
Vacuum Degree	–0.095 MPa					
Pressure Relief Valve	Yes					
Anti Cross-Contamination	No		Yes		No	

SPE Series Comparison



XU-SPE
Cost-Effective Series

- Organic glass chamber
- Practical choice for routine laboratory extraction
- Sufficient chemical resistance for standard SPE processes
- Suitable for routine temperature conditions
- Lightweight structure with lower replacement cost
- Recommended for routine laboratories and testing institutions



XU-SPE-TB
Integrated Quartz Glass Series

- Integrated quartz glass chamber
- Professional choice for demanding applications
- Enhanced chemical resistance for corrosive or complex extraction systems
- Better temperature resistance and thermal shock resistance
- High-purity material with low extractables
- Recommended for research institutes, pharmaceutical and chemical laboratories

Product Selection Guide

Professional comparison, easier selection than ever

Model	SPE Series	SPE-G Series	SPE-F Series
Product Positioning	Cost-Effective (POM)	Durable Type (Stainless Steel)	PTFE Anti-Corrosion Type
Material	POM	Stainless Steel (316L)	PTFE
Chemical Resistance	Moderate (not suitable for strong acids and alkalis)	Better (not resistant to chloride ions)	Excellent (resistant to almost all chemicals)
Temperature Resistance	≤100°C	≤200°C (higher for short periods)	−200°C to +260°C
Mechanical Strength	High	Higher	Low (soft material)
Adsorption	Medium	Low (possible metal leaching)	Very Low (ideal for trace analysis)
Typical Applications	Routine organic SPE	Pharmaceutical / biological / routine analysis	Strongly corrosive media, trace analysis

Typical Applications



Environmental sample pretreatment



Pharmaceutical purification and enrichment



Food residue analysis



Chemical laboratory extraction



Biological sample preparation

Infrared Sterilizer

HW Series

Product Overview

HW Series Infrared Sterilizer is designed for rapid and efficient sterilization of inoculation loops, needles and small laboratory tools. Using infrared heating technology, it provides safe, clean and flame-free sterilization for routine microbiological applications.



Key Features

- **Adjustable sterilization temperature** from 450°C to 950°C for different laboratory requirements.
- Available with Ø14 mm and Ø35 mm heating tubes for different tools and applications.
- **High-quality 95 porcelain ceramic tube** provides excellent heat resistance, corrosion resistance and durability.
- **Standard support rack** design ensures stable and reliable operation.
- **Rapid sterilization** within 3 seconds improves working efficiency in routine laboratory use.

Specifications

Model	HW-600 PRO	HW-900 PRO
Image		
Voltage	AC110/240V 50–60Hz	
Power	150W	250W
Temperature Range	450°C–950°C, stepless adjustable	
Max. Center Temperature	950°C ±25°C	950°C ±25°C
Heating Tube Material	95 High-Grade Ceramic	
Max. Sterilization Diameter	Ø14 mm	Ø35 mm
Heating Zone Length	150 mm	100 mm
Heating-Up Time	10 min	
Fuse	250V / 3A / 5×20	

Typical Applications


Reagent Heating and Solution Preparation


Sterilization of tweezers and small tools


Microbiological laboratory applications


Cell culture laboratory use


Flame-free routine sterilization

UltraPure Water System

SYD Series

Product Overview

SYD Intelligent Touch Ultra-Pure Water System is designed for high-purity water preparation in laboratories. Featuring an intelligent touch control interface, it delivers stable water quality, intuitive operation and reliable performance for routine analytical and research applications.



Key Features

- **Large color touchscreen** provides clear status display and a user-friendly operating interface.
- **32-bit microprocessor control system** ensures stable operation with real-time monitoring of system status and key parameters.
- **Triple online water quality monitoring** allows real-time detection of source water, RO water and ultra-pure water quality.
- **Automatic RO membrane flushing program** helps reduce scaling and extend membrane service life.
- **Switchable ultra-pure water circulation system** helps maintain low bacterial contamination within the system.

Specifications

Model	SYD-10L/20L/30L/40L/60L
Voltage	AC110–220V
Frequency(Hz)	50/60Hz
Power(W)	45–100W
Water Production Capacity	10/20/30/40/60L/h
Application Range	Standard laboratory experiments, environmental analysis, biochemical analysis, HPLC, TOC, ICP, ion chromatography (IC), ICP-MS, graphite furnace atomic absorption, etc.
Feed Water Source	Municipal tap water, water temperature 1–50°C, pressure 0.1–0.5 MPa, TDS < 300 ppm
Instant Water Dispensing Rate	1.5–2.0 L/min (with full water tank)

UP Ultra-Pure Water Specifications

Resistivity	18.25 MΩ·cm @ 25°C (online monitoring)
Heavy Metal Ions	< 0.1 ppb
Total Organic Carbon (TOC)	< 10 ppb
Bacteria	< 0.01 cfu/ml
Particles (>0.2 μm)	-------
Endotoxin	-------
RNases	-------
DNases	-------

RO Pure Water Specifications

Conductivity	≤ 5 μs/cm @ 25°C
Ion Rejection Rate	> 98% (with new RO membrane)
Organic Rejection Rate	> 99%, when MW > 200 Dalton
Particle and Bacteria Rejection Rate	> 99%

Note: Performance values may vary depending on feed water quality, pressure, temperature and total contamination load of the inlet water.

Typical Applications

- Routine laboratory water preparation
- Analytical and instrumental applications
- Biochemical and pharmaceutical laboratories
- Environmental testing and research
- General high-purity water supply

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Multi-Stage Purification Process

Tap Water
Raw Water Input

→

Pre-Filter
Reduces Impurities and Protects System

→

RO Membrane
Removes Dissolved Salts Ions and Contaminants

→

Ultra-Pure Cartridge
Polishes Water to Ultra-Pure Quality

→

Ultra-Pure Water
18.25 MΩ·cm Type Quality

Filter Specification

01



PRETREATMENT

Pre-Filter Cartridge

Integrated Pretreatment Cartridge

High-Efficiency PP and Activated Carbon Filtration Effectively Removes Suspended Solids, Chlorine, Organic Matter and Other Impurities.

REMOVES

- Sediment, Sand, Rust
- Residual Chlorine
- Odor and Color
- Suspended Solids
- Organic Contaminants
- Other Large Impurities

Key Features

- Depth-pleated PP+ activated carbon(PC)
- High dirt-holding capacity
- Protects downstream PO membrane
- Extends filter service life and system stability

Specifications

Filter Media	PP+Activated Carbon
Function	Sediment & Chlorine Reduction
Service Life	6–12 Months

02



FILTRATION

RO Membrane Cartridge

Integrated Reverse Osmosis System

High-Performance RO Membrane Removes Up to 99% of Dissolved Inorganic Ions, Organic Compounds, Microorganisms and Particulate Contaminants.

REMOVES

- Dissolved Salts and Ions
- Bacteria and Viruses
- Particulates
- Heavy Metals
- Organic Compounds
- Up to 99% removal rate

Key Features

- High salt rejection rate up to 99%
- Stable performance and long service life
- Built-in automatic flushing function
- Low energy consumption

Specifications

Membrane type	RO Membrane
Removal Rate	Up to 99%
Function	Desalination & Contaminant Removal
Service life	12–24 Months

03



POLISHING

Ultra-Pure Cartridge

Integrated ultra-purification Cartridge

Premium Mixed Bed Ion-Exchange Resin Delivers Consistent High-Purity Water With Ultra-Low TOC and Excellent Chemical Purity.

REMOVES

- Cations and Anions
- TOC (Total Organic Carbon)
- Small Organic Molecules
- Heavy Metals
- Silica
- Trace Contaminants

Key Features

- High-capacity mixed bed resin
- 18.25MΩ·cm ultra-pure water
- Low TOC, low leaching
- Consistent and reliable water quality

Specifications

Resistivity	18.25MΩ·cm
TOC	Ultra-Low
Resin Type	Imported Mixed Bed Ion-Exchange Resin
Service Life	12–24 Months

UltraPure Water System

SK Series



Product Overview

SK Series Ultra-Pure Water System is designed for reliable production of high-purity laboratory water, combining intelligent touch control, real-time water quality monitoring and integrated multi-stage purification for routine analytical and research applications.

Key Features

- **10-inch floating touchscreen** with 360° adjustment provides flexible and intuitive operation.
- **64-bit microprocessor control system** ensures stable operation and real-time parameter monitoring.
- **Movable interface design** improves operating convenience and user interaction.
- **Integrated 8-stage purification system** supports efficient treatment and tool-free cartridge replacement.
- **Triple online water quality monitoring** enables real-time supervision of feed water, RO water and ultra-pure water.
- **Switchable circulation system** helps maintain low bacterial contamination in the ultra-pure water loop.

Specifications

Model	SK-10/20/30/40	SK-10/20/30/40UF	SK-10/20/30/40UV	SK-10/20/30/40UVF
Parameter	Physicochemical Analysis	Pyrogen Removal	Low TOC	Advanced Comprehensive
Voltage	AC110–220V			
Power(W)	50/60Hz			
Water Production Capacity	45–100W			
Application Range	10 / 20 / 30 / 40 L/h			
Feed Water Source	Municipal tap water, water temperature 5–40°C, pressure 0.1–0.5 MPa, TDS < 300			
Max. Flow Rate	ppm			

UP Ultra-Pure Water Specifications

Resistivity	18.25 MΩ·cm @ 25°C			
Conductivity	0.055 µs/cm			
Heavy Metal Ions	< 0.1 ppb			
TOC	5 ppb		2 ppb	
Bacteria	< 0.01 cfu/ml			
Particles (>0.2 µm)	< 1/ml	< 1/ml	< 1/ml	< 1/ml
Endotoxin	N/A	< 0.001 EU/ml	N/A	< 0.001 EU/ml
RNases	N/A	< 0.01 ng/ml	N/A	< 0.01 ng/ml
DNases	N/A	< 5 pg/ml	N/A	< 5 pg/ml
Proteases	N/A	0.15 µg/ml	N/A	0.15 µg/ml

RO Pure Water Specifications

Conductivity	≤ 1 µs/cm @ 25°C
Ion Rejection Rate	> 98% (with new RO membrane)
Organic Rejection Rate	> 99%, when MW > 200 Dalton
Particle and Bacteria Rejection Rate	> 99%

01



PRETREATMENT

Pre-Filter Cartridge

Integrated Pretreatment Cartridge

High-Efficiency PP and Activated Carbon Filtration Effectively Removes Suspended Solids, Chlorine, Organic Matter and Other Impurities.

REMOVES

- Sediment
- Residual Chlorine
- Odor
- Rust
- Organic
- Large Particles

Key Features

- Depth-pleated PP+ activated carbon(PC)
- High dirt-holding capacity
- Protects downstream PO membrane
- Extends filter service life and system stability

Specifications

Filter Media	PP+Activated Carbon
Function	Sediment & Chlorine Reduction
Service Life	6–12 Months

02



PRETREATMENT

RO Membrane Cartridge

Integrated RO Membrane Cartridge

High-Performance DOW™ Reverse Osmosis Membrane Effectively Removes Dissolved Salts, Organic, Microorganisms and Particles, Ensuring Reliable Pure-Water.

REMOVES

- Dissolved Salts
- Microorganisms
- Organic Compounds
- Heavy Metals
- Bacteria
- Colloids

Key Features

- High salt rejection rate(up to 99%)
- Stable performance and consistent water quality
- Long service life
- Protects downstream ultrapurification cartridge

Specifications

Filter Media	DOW™ RO Membrane
Function	Salt, Organics & Microbial
Service Life	6–12 Months

03



ULTRAPURIFICATION

Ultrapurification Cartridge

Integrated Ultrapurification Cartridge

High-Performance Mixed Bed Ion Exchange Resin (Cation & Anion) Effectively Removes Ions, Heavy Metals and Organic Contaminants, Delivering High-Purity Water.

REMOVES

- Cations
- Heavy Metals
- Silica
- Anions
- TOC
- Trace Organics

Key Features

- High-capacity mixed bed ion exchange resin
- Efficient removal of cations, anions and heavy metals
- Reduces TOC and chloride ions
- Ensures stable ultra-pure water quality

Specifications

Filter Media	Mixed Bed Ion Exchange Resin (Cation & Anion)
Function	Ion & TOC Removal
Service Life	6–12 Months

04



WATER STORAGE TANK

Conical PE Pure Water Storage Tank

Safe Storage of Pure Water From Purification

High-Purity Conical PE Tank for Lab Pure Water Systems. Integrated Air Filtration Adsorbs CO_2 and Organic Compounds While Removing Airborne Bacteria and Particulates. Optional UV Module for Continuous Sterilization and Long-Term Microbial Control.

REMOVES

- Laboratory
- Ultrapure Water
- Microbiology
- Buffering
- Chemical Analysis
- Water Support

Key Features

- Built-in air filtration system reduces CO_2 and organic contamination
- Optional UV sterilization module inhibits growth
- High-purity PE material with excellent chemical stability and no leaching

Specifications

Material	High-purity PE
CO_2 Adsorption	Yes
Optional UV sterilization	Yes

Low-Speed Centrifuge

TD Series

Product Overview

The Low-Speed Large Capacity Centrifuge is designed for efficient sample separation, sedimentation and purification in routine laboratory applications. Featuring stable operation, low-noise performance and large-volume processing capability, it is ideal for medical, biological, environmental and industrial laboratories requiring reliable centrifugal separation.



Key Features

- **Brushless motor** with low vibration and quiet operation
- **Digital display** for speed and timer control
- **Automatically stores** previous operating parameters
- **Built-in overspeed protection** system
- **Compatible with multiple rotor options** to support different sample capacities and laboratory applications

Specifications

Model	XU-TD4 pro						
Image							
Voltage	AC220V50Hz 10A						
Power	150W						
Display	LCD						
Speed Accuracy	±20rpm/min						
Timer Range	0 ~ 99min59s						
Programmable Memory	30						
Chamber Diameter	280mm						
Noise Level	≤55dB						
Rotor	4×50ml	6×15/10ml	24×10ml	18×10ml	4×100ml	12×20ml	12×15/10ml
Rotor Image							
Max Speed	4000r/min	4500r/min	4000r/min	4000r/min	4000r/min	4000r/min	6000r/min
Max RCF	2987xg	3280xg	3380xg	3380xg	2987xg	2987xg	4669xg

Viscometer

NDJ Series

Product Overview

NDJ (Ultra) Series Viscometer is designed for precise viscosity measurement of Newtonian liquids and apparent viscosity testing of non-Newtonian liquids. With high sensitivity and reliable performance, it is suitable for routine viscosity analysis in laboratory and industrial applications.



Key Features

- **High measurement sensitivity** ensures accurate and reliable test results.
- Suitable for measuring absolute viscosity of Newtonian liquids and apparent viscosity of non-Newtonian liquids.
- **Stable performance** supports routine laboratory and quality control applications.
- Designed for **convenient operation** and efficient viscosity testing.
- Suitable **for a wide range of liquid samples** in research, production and inspection processes.

Specifications

NDJ Series

Model	NDJ-1S	NDJ-5S	NDJ-8S	NDJ-9S
Image				
Voltage	AC100~240V, 50/60Hz, 2AMAX, 12V			
Measuring Range	1–70,000 mPa·s	1–100,000 mPa·s	1–2,000,000 mPa·s	1–6,000,000 mPa·s
Rotational Speed	6 / 12 / 30 / 60 rpm	6 / 12 / 30 / 60 rpm	0.3 / 0.6 / 1.5 / 3 / 6 / 12 / 30 / 60 rpm	0.1 / 0.3 / 0.6 / 1.5 / 3 / 6 / 12 / 30 / 60 rpm
Display	3.5" Full-Color IPS Screen			
Spindle Set	Standard spindles No. 1 / 2 / 3 / 4; spindle No. 0 optional, measuring range 1–100 mPa·s			
Measurement Mode	Standard mode (Fast)			
Temperature Display	Optional			
Accuracy	±2% (Newtonian liquids)			
Repeatability	±1% (Newtonian liquids)			
Resolution	0.01 mPa·s			
Functions	Routine measurement, unit conversion, printing (optional)			
Data Record	/			
Data Interface	Optional printer interface			
Operating Environment	0–40°C, humidity 20%–80%, non-condensing air environment			

SN Series

Model	NDJ-5SN	NDJ-8SN	NDJ-8SN
Image			
Voltage	AC110-240V 50-60Hz		
Measuring Range	1-100,000 mPa·s	1-2,000,000 mPa·s	1-6,000,000 mPa·s
Speed	6 / 12 / 30 / 60 rpm	0.3 / 0.6 / 1.5 / 3 / 6 / 12 / 30 / 60 rpm	0.1 / 0.3 / 1.5 / 3 / 6 / 12 / 30 / 60 rpm
Display	3.5" Full-Color IPS Screen		
Standard Spindles	No. 1 / 2 / 3 / 4		
Optional Spindle	No. 0 spindle, measuring range 1-100 mPa·s		
Measurement Mode	Fast / Timed / Auto Scan		
Temperature Display	Yes		
Accuracy	±1% (Newtonian liquids)		
Repeatability	±1% (Newtonian liquids)		
Resolution	0.01 mPa·s		
System Functions	Routine measurement, data recording, unit conversion, printing		
Data Record	50 records		
Data Interface	USB		
Operating Environment	0-40°C, humidity 20%-80%, non-condensing air environment		

SNB Series

Model	SNB-1	SNB-2	SNB-3
Image			
Voltage	AC100-240V, 50/60Hz, 2AMAX, 12V		
Measuring Range	1-100,000 mPa·s	1-2,000,000 mPa·s	1-6,000,000 mPa·s
Speed	6 / 12 / 30 / 60 rpm	0.3 / 0.6 / 1.5 / 3 / 6 / 12 / 30 / 60 rpm	0.1 / 0.3 / 1.5 / 3 / 6 / 12 / 30 / 60 rpm
Display	3.5" Full-Color IPS Screen		
Standard Spindles	No. 1 / 2 / 3 / 4		
Optional Spindle	No. 0 spindle, measuring range 1-100 mPa·s		
Measurement Mode	Fast / Timed / Auto Scan		
Temperature Display	Yes		
Accuracy	±1% (Newtonian liquids)		
Repeatability	±1% (Newtonian liquids)		
Resolution	0.01 mPa·s		
System Functions	Routine measurement, data recording, unit conversion, printing		
Data Record	50 records		
Data Interface	USB, RS232		
Operating Environment	0-40°C, humidity 20%-80%, non-condensing air environment		

NDJ Ultra Series

Model	NDJ-5S Ultra	NDJ-8S Ultra	NDJ-9S Ultra
Image			
Voltage	AC100~240V, 50/60HZ, 2AMAX, 12V		
Measuring Range	1–100,000 mPa·s	1–2,000,000 mPa·s	1–6,000,000 mPa·s
Speed	6 / 12 / 30 / 60 rpm	0.3 / 0.6 / 1.5 / 3 / 6 / 12 / 30 / 60 rpm	0.1 / 0.3 / 1.5 / 3 / 6 / 12 / 30 / 60 rpm
Display	3.5" Full-Color IPS Screen		
Standard Spindles	No. 1 / 2 / 3 / 4		
Optional Spindle	No. 0 spindle, measuring range 1–100 mPa·s		
Measurement Mode	Fast / Timed / Auto Scan		
Temperature Display	Yes		
Accuracy	±1% (Newtonian liquids)		
Repeatability	±0.5% (Newtonian liquids)		
Resolution	0.01 mPa·s		
System Functions	Routine measurement, viscosity curve, data recording, viscosity conversion, printing		
Data Record	50 records		
Data Interface	USB, RS232		

Selection Guide

Series	Positioning	Suitable Samples	Key Functions	Recommended Applications
NDJ	Basic viscosity testing	Routine Newtonian liquids and generalnon–Newtonianfluids	Routine measurement, Unit conversion, Optional printing	Daily laboratory testing, teaching labs,basic quality control
NDJ-SN	Routine testing with output	Medium– to high–viscosity samples requiring temperature monitoring and data recording	Fast/timed/Auto scan, Standard temperature probe, Data record, USB	Laboratories requiring result storage and output
SNB	Advanced viscosity testing	Routine to high–viscosity samples with higher requirements for data management	Data record, Viscosity conversion, Printing, USB/RS232	Research labs,QC departments, process viscosity control
NDJ Ultra	High–viscosity fluid analysis	High–viscosity samples, complex non–Newtonian fluids, formulation samples	Fast/timed/Auto scan, Viscosity curve, Data record, Temperature probe, USB / RS232	R&D, formulation development, advanced laboratory analysis

Typical Applications


Viscosity measurement of oils and grease


Testing of paints, coatings and inks


Analysis of plastics, resins and chemical raw materials


Viscosity control in pharmaceuticals and food products


Measurement of adhesives, glue and related materials

High-viscosity Viscometer DV/RV Series



Product Overview

The DV/RV Viscometer Series is designed for precise viscosity measurement of medium to high viscosity fluids. With intelligent operation, real-time viscosity–temperature analysis, and advanced data management, it provides reliable results for quality control, product development, and laboratory research.

Key Features

- Delivers **repeatability up to ±0.2%** for highly reliable viscosity measurements.
- Displays **real-time viscosity** and viscosity–temperature curves for comprehensive sample analysis.
- Automatically scans and recommends the optimal spindle and speed combination.
- Supports **data** storage, direct printing, and USB connectivity for efficient data management.
- Integrates with PC software through the RS232 interface for data acquisition and remote operation.
- Features an **intuitive color touchscreen** for fast setup and user-friendly operation.

Specifications

Model	RVDV-1	HADV-1	HBDV-1	RVDV-2	HADV-2	HBDV-2
Image						
Power	Input: 100–240V AC, 50/60Hz Output: 12V, 2A					
Measuring Range	6.4–1.3×10^7 mPa·s	12.8–2.6×10^7 mPa·s	51.2–1.04×10^8 mPa·s	3.2–4×10^7 mPa·s	6.4–8×10^7 mPa·s	25.6–3.2×10^8 mPa·s
Rotational Speed	0.3–100 rpm (37 selectable speeds)			0.1–200 rpm (58 selectable speeds)		
Display	3.5" Full-color IPS Screen					
Spindle Set	Standard: R2, R3, R4, R5, R6, R7 Optional: R1 (No.0) Spindle Small Sample Spindle Set (#21/#27/#28/#29)					
Measurement Mode	Fast / Timed / Auto Scan					
Temperature Display	Standard Temperature Probe					
Accuracy	±1.0% (Newtonian Fluids)					
Repeatability	±0.2% (Newtonian Fluids)					
Resolution	0.1% of Full Scale					
Functions	Viscosity Measurement, Viscosity Curve, Viscosity Conversion, Data Logging, Unit Conversion, Printing					
Data Record	50 Records					
Data Interface	USB , RS232					

Typical Applications


Viscosity measurement of oils and grease


Testing of paints, coatings and inks


Analysis of plastics, resins and chemical raw materials


Viscosity control in pharmaceuticals and food products


Measurement of adhesives, glue and related materials