



## MICRO CENTRIFUGE BET-501

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BENCHTOP HIGH SPEED MICRO VOLUME REFRIGERATED CENTRIFUGE



- The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a variable frequency brushless motor for precise speed control.
- A 7" wide-angle LCD touch screen is for digital input and simple to operate. It can display set and run parameters in real time. It comes with an atmosphere light with seven colors available for enhancing the user experience. The all-steel housing is treated with corrosion-resistant orange peel fine wrinkles showing full lines, featuring an industrial human-machine design that shows a sense of safety while being visually appealing, and allowing a high recognition rate.
- They utilize imported fluorine-free refrigerating compressor units (refrigerant R404a) that meet the environmental requirements, with pre-cooling function and a wide temperature control range: -20°C to +40°C, quickly reaching the set temp

## SPECIFICATIONS

Model	BET-501
Max capacity	48x1.5mL
Max speed	16,500r/min
Max RCF	22,500xg
Speed accuracy	±20r/min (customizable, multiples of 10)
Control and drive system	Microcomputer control, maintenance-free large-torque inverter brushless motor
Display mode	7" wide-angle LCD touch screen
Operation mode	Touch control (with local control option)
Rotor recognition	Automated loading and locking of rotor parameters (optional)
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a
Temperature control range	-20°C~+40°C
Temperature control accuracy	±1°C
Gears up/down	10 gears
Timer range	1s-99h59min59s, with continuous centrifugation and instantaneous centrifugation
Total power	0.6kW
Noise	≤65dB(A)
Power supply	AC220V 50Hz
Weight	51.5kg
Dimensions (LxWxH)	350mmx640mmx330mm
Alt Name	Benchtop High Speed Micro Volume Refrigerated Centrifuge

## ACCESSORIES FOR PURCHASE

No	Name	Description
1	Fixed-angle Rotor 12x1.5mL	Max RPM: 16,500r/min Max RCF: 19856xg
2	Fixed-angle Rotor 24x1.5mL	Max RPM: 15,000r/min Max RCF: 22,500xg
3	Fixed-angle Rotor 48x1.5mL	Max RPM: 14,000r/min Max RCF: 21756xg
4	Fixed-angle Rotor 12x5mL	Max RPM: 14,000r/min Max RCF: 15092xg
5	Fixed-angle Rotor 4x8x0.2mL (PCR 8-tube strings)	Max RPM: 15,000r/min Max RCF: 17550xg



1



2



3



4



5

## FEATURES

- The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a variable frequency brushless motor for precise speed control.
- A 7" wide-angle LCD touch screen is for digital input and simple to operate. It can display set and run parameters in real time. It comes with an atmosphere light with seven colors available for enhancing the user experience. The all-steel housing is treated with corrosion-resistant orange peel fine wrinkles showing full lines, featuring an industrial human-machine design that shows a sense of safety while being visually appealing, and allowing a high recognition rate.
- They utilize imported fluorine-free refrigerating compressor units (refrigerant R404a) that meet the environmental requirements, with pre-cooling function and a wide temperature control range: -20°C to +40°C, quickly reaching the set temperature; the chamber is embedded with copper pipes complying with national standards for strong hot and cold exchange capabilities and ensuring constant-temperature centrifugation.
- They feature multiple audio/visual early warning protection functions for overspeed, over temperature, imbalance, wrong operation, overcurrent, overvoltage, and anti-pinch. The fluorosilicone rubber sealing ring, resistant to hydrogen, oil, acids and alkalis, is capable of long-time use at the temperature from -55°C to +200°C. The aesthetically pleasing and hermetically thermoformed inner panel of the cabin door can dually prevent aerosol spillage. The 304 stainless steel seamless corrosion-resistant centrifuge chamber and steel cylinder sleeve are designed with a sound-absorbing air duct.
- The door cover has an electronic lock allowing for one-button opening. The gas spring hydraulic rod makes it easy and convenient for the door cover to close. In case of shutdown or power outage, the door cover can be manually opened. The patented anti-pinch function can prevent injuring fingers by hasty operations.
- The Bluetooth/Type C interfaces are optional for short-range control via mini-programs, facilitating system upgrades and experimental data downloads.
- There are 10 gears for acceleration/deceleration and three-stage damping for shock absorption, ensuring stable sample operation without resuspension. They can store 99 groups of programs and be programmable for point control, timing, differential timing, density, and gradient centrifugation functions, thus meeting diverse experimental requirements.
- The hidden drainage function allows for easy expulsion of condensate water with a gentle squeeze, thereby preventing motor failure due to condensate water and extending the centrifuge's lifespan.
- The optional rotor has an auto recognition function and can automatically load and lock rotor parameters; parameters may be modified during operation without the need to stop, and current parameters may be automatically saved.
- Forged aerospace aluminum rotors, suitable for centrifuge tubes of 0.2ml to 2.0ml, paired with PCR 8-tube strips.
- These products are supported by certifications including ISO 9001 (2015); ISO 13485 (2016); ISO 14001 (2015); ISO 45001 (2018); and CFDA registration and production qualification.

## APPLICATIONS

With a large 7" touch screen, the instrument is easy to operate and can be lifted up and down fast and paired with PCR 8-tube strips for rapid precipitation and separation of DNA, RNA, protein and virus. It is commonly used for bacteria and protein precipitation, nucleic acid extraction, cell/subcellular component separation, environmental sample processing, clinical trial sample processing, etc.



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