BioLAB

PRODUCT CATALOG

LABORATORY HIGH SPEED REFRIGERATED CENTRIFUGE BET-304

CE ISO9001 CERTIFIED

www.biolabscientific.com

LABORATORY HIGH SPEED REFRIGERATED CENTRIFUGE BET-304

BENCHTOP HIGH SPEED REFRIGERATED CENTRIFUGES

• The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a DC 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-304
Max capacity	4x100ml
Max speed	16,800r/min
Max RCF	22,500xg
Speed accuracy	±20r/min (customizable, multiples of 10)
Control and drive system	Microcomputer control, maintenance-free large-torque DC/ inverter brushless motor
Display mode	7 wide-angle LCD touch screen
Operation mode	Touch control (with local control optional)
Rotor recognition	Automated loading and locking of rotor parameters
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	1kW
Noise	≤65dB(A)
Power supply	AC220V50Hz
Weight	74kg
Dimensions (LxWxH)	505mmx650mmx376mm
Alt Name	Benchtop High Speed Refrigerated Centrifuges

ACCESSORIES FOR PURCHASE

No	Name	Description
1	Fixed-angle Rotor 12x1.5mL	Max RPM: 16,800r/min Max RCF: 20586xg

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 12x10mL	Max RPM: 14,000r/min Max RCF: 19,796xg
6	Fixed-angle Rotor 8x15ml (round-bottom)	Max RPM: 12,000r/min Max RCF: 15,408xg
7	Fixed-angle Rotor 8x15ml (conical-bottom)	Max RPM: 12,000r/min Max RCF: 15,840xg
8	Fixed-angle Rotor 6x50ml (through-holes)	Max RPM: 6,000r/min Max RCF: 3672xg
9	Fixed-angle Rotor 6x50ml (conical-bottom)	Max RPM: 12,000r/min Max RCF: 17424xg
10	Fixed-angle Rotor 4x100ml	Max RPM: 10,000r/min Max RCF: 11,400xg
11	Fixed-angle Rotor 4x8x0.2mL PCR 8-tube	Max RPM: 14,000r/min Max RCF: 15288xg
12	Swing-out Rotor 4x50ml	Max RPM: 4,000r/min Max RCF: 2656xg
13	Swing-out Rotor 4x100ml	Max RPM: 4,000r/min Max RCF: 2464xg
14	Microplate Rotor 2x2x48 holes	Max RPM: 4,000r/min Max RCF: 2,000xg


1


2


3


4


5


6


7


8


9


10


11


12


13


14

FEATURES

• The new XIUI3.0 OS features microcomputer control, programmable operations, and direct drive by a DC 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 -55°C - +200°C temperatures. 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 and electric support rod, allowing for smooth and stable automatic one-button opening and closing. In case of shutdown or power outage, the door cover can still be opened. The patented anti-pinch function can prevent injuring fingers by hasty operations.

• The Bluetooth and 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 according to user needs for point control, timing, differential timing, density, and gradient centrifugation, 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 rotor has an auto recognition function and can automatically load and lock rotor parameters; parameters can be modified during operation without the need to stop, and current parameters can be automatically saved.

• Multi-specification forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, suitable for 0.2mL to 100mL centrifuge tubes or reagent bottles; able to centrifuge all types of MTP microplates, PCR plates, cell culture plates and deep well plates.

• The products are supported by certifications including ISO9001 (2015); ISO 13485 (2016); ISO 14001 (2015); ISO 45001 (2018); and CFDA registration and production qualification.

APPLICATIONS

This series of models can be paired with more than ten different rotors and various adapters to meet application needs in major labs, clinical medicine, bacterial studies, protein precipitation, nucleic acid extraction, cellular/subcellular fractionation, and processing of eco-friendly samples.

Biolab Scientific Ltd.
Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada
Email: info@biolabscientific.com | Website: www.biolabscientific.com