BioLAB

PRODUCT CATALOG

LABORATORY HIGH SPEED REFRIGERATED CENTRIFUGE BET1T2 (BCBHR-305)

CE ISO9001 CERTIFIED

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LABORATORY HIGH SPEED REFRIGERATED CENTRIFUGE BET1T2

BENCHTOP HIGH SPEED REFRIGERATED CENTRIFUGES

• With single-chip microcomputers, self-developed control boards and high-torque AC/DC brushless motors, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.
• Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a, allowing for a wide temperature control range: -20℃ to +40℃ (can be set during operation); pre-cooling function (quickly cool down to the set temperature); standby cooling function (maintain the set temperature in the standby state); heating and defrosting function.
• Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, securing optimal centrifugal effect.

SPECIFICATIONS

Model	BET1T2
Old Model	BCBHR-305
Max speed	20,000r/min
Max RCF	28,800xg
Max capacity	4x100ml
Standard rotor	12x1.5/2.0ml
Speed accuracy	±30r/min (customizable, multiples of 10)
Refrigeration system	Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a
Control and drive system	High torque AC/DC brushless variable frequency motor, microcomputer control
Temperature control range	-20℃~+40℃
Temperature control accuracy	±1℃
Timer range	1min~99h59min59s, with continuous centrifugation and instantaneous centrifugation
Noise	≤65dB(A)
Power supply	AC220V50Hz
Total power	1.5kW
Weight	73kg
Dimensions (LxWxH)	710mmx630mmx370mm
Alt Name	Benchtop High Speed Refrigerated Centrifuges

ACCESSORIES FOR PURCHASE

No	Name	Description
1	Fixed-angle Rotor 12x1.5mL	Max RPM: 20,000r/min Max RCF: 28,800xg Bio-isolated rotor cover
2	Fixed-angle Rotor 24x1.5mL/2.0mL	Max RPM: 15,000r/min Max RCF: 22,500xg Bio-isolated rotor cover

3	Fixed-angle Rotor 48x1.5mL	Max RPM: 13,000r/min Max RCF: 18,750xg Bio-isolated rotor cover
4	Fixed-angle Rotor 12x1.5mL/2.0mL	Max RPM: 20,000r/min Max RCF: 28,800xg
5	Fixed-angle Rotor 10x5mL	Max RPM: 16,000r/min Max RCF: 18,680xg Bio-isolated rotor cover
6	Fixed-angle Rotor 12x10mL	Max RPM: 12,000r/min Max RCF: 14,540xg Bio-isolated rotor cover
7	Fixed-angle Rotor 12x10mL (through holes)	Max RPM: 6,000r/min Max RCF: 3,740xg
8	Fixed-angle Rotor 8x15ml (conical bottom)	Max RPM: 12,000r/min Max RCF: 15,840xg
9	Fixed-angle Rotor 6x50ml (through holes)	Max RPM: 6,000r/min Max RCF: 3,670xg
10	Fixed-angle Rotor 8x15ml (round bottom)	Max RPM: 12,000r/min Max RCF: 15,400xg
11	Fixed-angle Rotor 6x50ml (conical bottom	Max RPM: 12,000r/min Max RCF: 17,420xg Bio-isolated rotor cover Optional conical-to-round bottom adapter bottom
12	Fixed-angle Rotor 4x100ml	Max RPM: 9,000r/min Max RCF: 9,230xg
13	Microplate Rotor 2x2x48 holes	Max RPM: 3,000r/min Max RCF: 1,120xg


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FEATURES

• With single-chip microcomputers, self-developed control boards and high-torque AC/DC brushless motors, these concentrators can run stably with lower noise, allowing for a comfortable laboratory environment.

• Imported fluorine-free refrigeration compressor unit and eco-friendly refrigerant R404a, allowing for a wide temperature control range: -20°C to +40°C (can be set during operation); pre-cooling function (quickly cool down to the set temperature); standby cooling function (maintain the set temperature in the standby state); heating and defrosting function.

• Early warning functions such as overspeed, overheating, imbalance, undervoltage, and overvoltage warnings; specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, securing optimal centrifugal effect.

• TFT-LCD true color display screen, dual operation modes of touch screen and physical keys, and special keys for centrifugal force display, display of the set parameters and operating parameters at the same time, modification of parameters at any time during operation without interruption; intuitive, simple, and easy-to-use interface; operation menu in multiple languages

• Biosafety air-tight fix-angle rotor adopting an integral silicone rubber sealing ring (EU RoHS 2015/863) to avoid aerosol overflow and fully ensure the safety of operators and lab environments.

• Grade 304 austenitic stainless steel centrifugal chamber at the rear equipped with an all-steel plastic-sprayed housing, integrally formed stamping steel front cover, and a three-layer steel protective cover, which is sturdy and durable to ensure the safety of operators and labs.

• Exquisite industrial appearance design with a novel and artistic diamond shape, more suitable for placement in the corner, saving the limited bench space of labs.

• Silent, easy-to-use mechatronics motor door lock (gently close the door, and the locking system will be triggered to lock the door securely).

• 10 levels speed-up and speed-down control; storage of up to 20 sets of user-defined programs; easy calling of frequently used programs (the last used programs are called when the device is powered on).

• Multi-specification forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, able to centrifuge all types of MTP microplates, PCR plates, cell culture plates and deep well plates.

• CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

APPLICATIONS

These are ideal high speed refrigerated centrifuges for insufficient budgets. They are ideal instruments for bacteria and protein precipitation, nucleic acid extraction, cell/subcellular fractionation, environmental sample processing, and clinical test sample processing in the fields of biochemistry, health care, food safety, life science, agriculture and forestry, animal husbandry, blood center, blood bank, biological products, pharmaceutical products, etc.

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