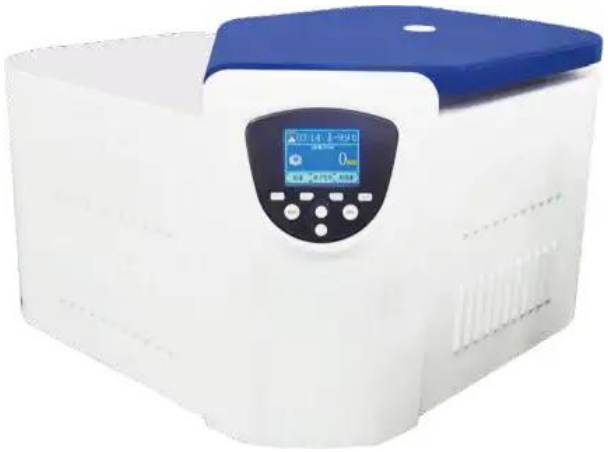
BioLAB

PRODUCT CATALOG



# LABORATORY HIGH SPEED REFRIGERATED CENTRIFUGE BET1R2 (BCBHR-307)

CE ISO9001 CERTIFIED

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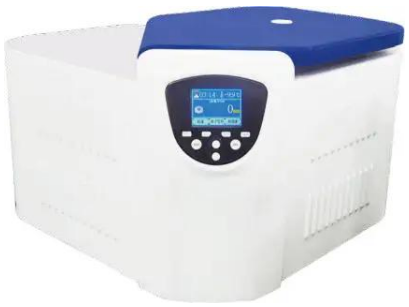
# LABORATORY HIGH SPEED REFRIGERATED CENTRIFUGE BET1R2

INTELLIGENT HIGH SPEED REFRIGERATED CENTRIFUGE



• 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; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent centrifugal effect.

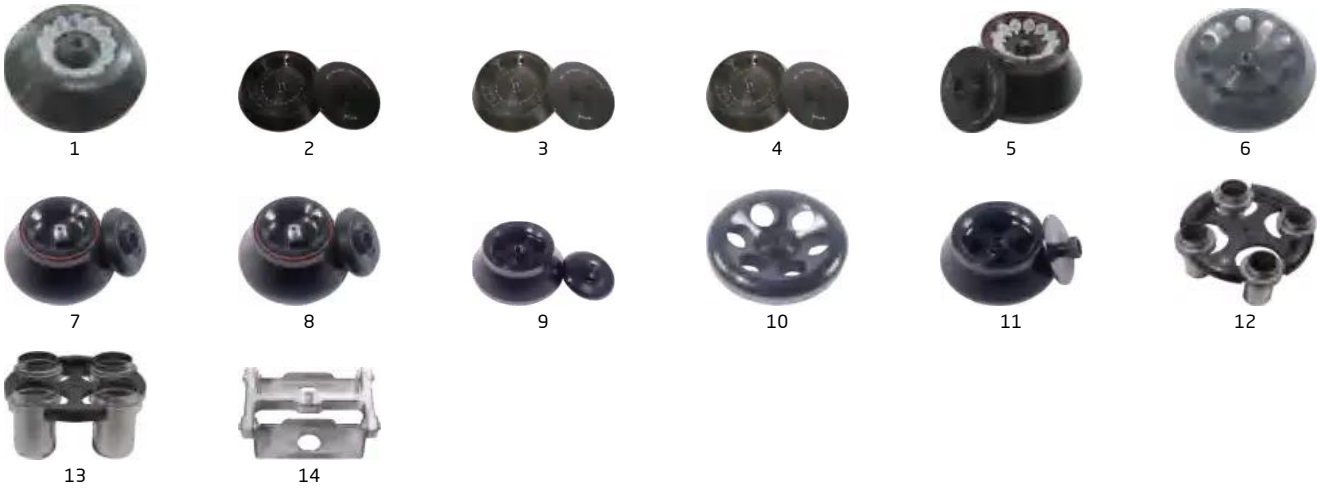
## SPECIFICATIONS

| Model | BET1R2 |
|---|---|
| Old Model | BCBHR-307 |
| Max speed | 20,800r/min |
| Max RCF | 31,150xg |
| Standard rotor | 12x1.5/2.0ml |
| Max capacity | 4x100ml |
| 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 motor, microcomputer control |
| Temperature control range | -20℃~+40℃ |
| Temperature control accuracy | ±1℃ |
| Number of running programs | 100 |
| Total power | 1.5kW |
| Timer range | 1min~99h59min59s, with continuous centrifugation and instantaneous centrifugation |
| Noise | ≤65dB(A) |
| Rotor recognition | Auto rotor identification |
| Weight | 75kg |
| Dimensions (LxWxH) | 710mmx630mmx370mm |
| Alt Name | Intelligent High Speed Refrigerated Centrifuge |

## ACCESSORIES FOR PURCHASE

| No | Name | Description |
|---|---|---|
| 1 | Fixed-angle Rotor<br>12x1.5/2.0ml | Max RPM:<br>24,000r/min<br>Max RCF:<br>41,470xg<br>Titanium alloy rotor |
| 2 | Fixed-angle Rotor<br>24x1.5/2.0ml | Max RPM:<br>16,000r/min<br>Max RCF:<br>25,600xg<br>Bio-isolated rotor cover |

| | | |
|---|---|---|
| 3 | Fixed-angle Rotor<br>48x1.5mL | Max RPM: 13,000r/min<br>Max RCF: 18,750xg |
| 4 | Fixed-angle Rotor<br>12x5mL | Max RPM: 15,000r/min<br>Max RCF: 17,320xg |
| 5 | Fixed-angle Rotor<br>12x10mL | Max RPM: 15,000r/min<br>Max RCF: 22,720xg<br>Bio-isolated rotor cover |
| 6 | Fixed-angle Rotor<br>12x15 ml/10ml (through-holes) | Max RPM: 6,000r/min<br>Max RCF: 3,740xg |
| 7 | Fixed-angle Rotor<br>8x15ml (conical-bottom) | Max RPM: 12,000r/min<br>Max RCF: 15,840xg<br>Bio-isolated rotor cover |
| 8 | Fixed-angle Rotor<br>8x15ml (round-bottom) | Max RPM: 12,000r/min<br>Max RCF: 15,400xg<br>Bio-isolated rotor cover |
| 9 | Fixed-angle Rotor<br>6x50ml | Max RPM: 12,000r/min<br>Max RCF: 17,420xg<br>Bio-isolated rotor cover<br>Optional conical-to-round adapter |
| 10 | Fixed-angle Rotor<br>6x50ml (through-holes) | Max RPM: 6,000r/min<br>Max RCF: 3,670xg |
| 11 | Fixed-angle Rotor<br>4x100ml (round-bottom) | Max RPM: 11,000r/min<br>Max RCF: 13,790xg<br>Bio-isolated rotor cover |
| 12 | Swing-out rotor<br>4x50ml | Max RPM: 4,000r/min<br>Max RCF: 2,650xg |
| 13 | Swing-out rotor<br>4x100ml | Max RPM: 4,000r/min<br>Max RCF: 2,460xg |
| 14 | Microplate Rotor<br>2x2x48 holes | Max RPM: 3,000r/min<br>Max RCF: 1,120xg |




## 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; three-stage damping shock absorber, a specially combined shock absorbing device to ensure the motor runs smoothly and safely and prevent samples from resuspending, thus securing excellent 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.
• 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 100 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, suitable for 0.2mL to 100mL centrifuge tubes or reagent bottles; able to centrifuge all types of MTP microplates, PCR plates, and cell culture plates.
• CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## APPLICATIONS

With a variety of optional fix-angle rotors and swing-out rotors and up to 100 sets of custom programs. This centrifuges that are extraordinarily versatile. They are used for bacteria and protein precipitation, nucleic acid extraction, cell/subcellular fractionation, and environmental sample processing.

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