



## LABORATORY HIGH SPEED REFRIGERATED CENTRIFUGE BET2D3

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## BET2D3

### 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                        | BET2D3                                                                                  |
| Max capacity                 | 4x100ml                                                                                 |
| Max speed                    | 20,600r/min                                                                             |
| Max RCF                      | 30,554xg                                                                                |
| 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<br>12x1.5mL | Max RPM:<br>20,600r/min<br>Max RCF:<br>30,554xg |

|    |                                              |                                                 |
|----|----------------------------------------------|-------------------------------------------------|
| 2  | Fixed-angle Rotor<br>24x1.5mL                | Max RPM:<br>15,000r/min<br>Max RCF:<br>22,500xg |
| 3  | Fixed-angle Rotor<br>48x1.5mL                | Max RPM:<br>14,000r/min<br>Max RCF:<br>21756xg  |
| 4  | Fixed-angle Rotor<br>12x5mL                  | Max RPM:<br>15,000r/min<br>Max RCF:<br>17325xg  |
| 5  | Fixed-angle Rotor<br>12x10mL                 | Max RPM:<br>15,000r/min<br>Max RCF:<br>22725xg  |
| 6  | Fixed-angle Rotor<br>8x15ml (round-bottom)   | Max RPM:<br>13,000r/min<br>Max RCF:<br>18083xg  |
| 7  | Fixed-angle Rotor<br>8x15ml (conical-bottom) | Max RPM:<br>13,000r/min<br>Max RCF:<br>18590xg  |
| 8  | Fixed-angle Rotor<br>6x50ml (through-holes)  | Max RPM:<br>6,000r/min<br>Max RCF:<br>3672xg    |
| 9  | Fixed-angle Rotor<br>6x50ml (conical-bottom) | Max RPM:<br>12,000r/min<br>Max RCF:<br>17424xg  |
| 10 | Fixed-angle Rotor<br>4x100ml                 | Max RPM:<br>11,000r/min<br>Max RCF:<br>13794xg  |
| 11 | Fixed-angle Rotor<br>4x8x0.2mL PCR 8-tube    | Max RPM:<br>15,000r/min<br>Max RCF:<br>17550xg  |
| 12 | Swing-out Rotor<br>4x50ml                    | Max RPM:<br>4,000r/min<br>Max RCF:<br>2656xg    |
| 13 | Swing-out Rotor<br>4x100ml                   | Max RPM:<br>4,000r/min<br>Max RCF:<br>2464xg    |
| 14 | Microplate Rotor<br>2x2x48 holes             | Max RPM:<br>4,000r/min<br>Max RCF:<br>2,000xg   |



1



2



3



4



5



6



## 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.



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