



LABORATORY HIGH SPEED REFRIGERATED CENTRIFUGE BET1E1

LABORATORY HIGH SPEED REFRIGERATED CENTRIFUGE

BET1E1

BENCHTOP HIGH SPEED LARGE CAPACITY 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. The all-steel housing is treated with corrosion-resistant orange peel fine wrinkles showing full lines, featuring an industrial human-machine design that reflects 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 stand

SPECIFICATIONS

Model	BET1E1
Max capacity	4x750ml
Max speed	20,600r/min
Max RCF	30,952xg
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	1.5kW
Noise	≤65dB(A)
Power supply	AC220V 50Hz
Weight	118kg
Dimensions (LxWxH)	835mmx630mmx450mm
Alt Name	Benchtop High Speed Large Capacity Refrigerated Centrifuge

ACCESSORIES FOR PURCHASE

No	Name	Description
1	Fixed-angle Rotor 12x1.5mL	Max RPM: 20,600r/min Max RCF: 30,952xg
2	Fixed-angle Rotor 24x1.5mL	Max RPM: 16,000r/min Max RCF: 25,600xg
3	Fixed-angle Rotor 48x1.5mL	Max RPM: 14,000r/min Max RCF: 21756xg

4	Fixed-angle Rotor 12x5mL	Max RPM: 15,000r/min Max RCF: 18,000xg
5	Fixed-angle Rotor 16x5mL	Max RPM: 14,000r/min Max RCF: 20972xg
6	Fixed-angle Rotor 12x10mL	Max RPM: 14,000r/min Max RCF: 19,796xg
7	Fixed-angle Rotor 12x15mL	Max RPM: 12,000r/min Max RCF: 17,712xg
8	Fixed-angle Rotor 8x15ml (conical-bottom)	Max RPM: 12,000r/min Max RCF: 15,840xg
9	Fixed-angle Rotor 6x50ml (conical-bottom)	Max RPM: 13,000r/min Max RCF: 20449xg
10	Fixed-angle Rotor	Max RPM: 11,000r/min Max RCF: 14883xg
11	Fixed-angle Rotor	Max RPM: 11,000r/min Max RCF: 14641xg
12	Fixed-angle Rotor	Max RPM: 8,000r/min Max RCF: 10,176xg
13	Fixed-angle Rotor	Max RPM: 15,000r/min Max RCF: 17550xg
14	Swing-out rotor	Max RPM: 5,000r/min Max RCF: 4,800xg
15	Tube rack 5mL (ordinary tube)	Number of centrifuges: 5mLx48 holes Max RPM: 4,000r/min Max RCF: 2,368xg
16	Tube rack 5mL (blood collection tube)	Number of centrifuges: 5mLx48 holes Max RPM: 4,000r/min Max RCF: 2,832xg
17	Tube rack 15mL	Number of centrifuges: 15mLx32 holes Max RPM: 4,000r/min Max RCF: 2,960xg
18	Tube rack 50mL	Number of centrifuges: 50mLx4 holes Max RPM: 5,000r/min Max RCF: 4,625xg
19	Tube rack 50mL	Number of centrifuges: 50mLx8 holes Max RPM: 4,000r/min Max RCF: 2,960xg
20	Tube rack 100mL	Number of centrifuges: 100mLx4 holes Max RPM: 5,000r/min Max RCF: 4,800xg
21	Swing-out rotor	Max RPM: 4,000r/min Max RCF: 3,392xg
22	Tube rack 5mL (blood collection tube)	Number of centrifuges: 5mLx76 holes Max RPM: 4,000r/min Max RCF: 3,024xg
23	Tube rack 250mL (flat bottom)	Number of centrifuges: 250mLx4 holes Max RPM: 4,000r/min Max RCF: 2,848xg

24	Tube rack 250mL (conical bottom)	Number of centrifuges: 250mLx4 holes Max RPM: 4,000r/min Max RCF: 3,392xg
25	Swing-out rotor 4x500ml	Max RPM: 4,000r/min Max RCF: 3,360xg
26	Swing-out rotor 4x750ml	Max RPM: 4,000r/min Max RCF: 3,536xg
27	Swing-out rotor 2x2x96 holes	Max RPM: 4,000r/min Max RCF: 2,368xg



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. The all-steel housing is treated with corrosion-resistant orange peel fine wrinkles showing full lines, featuring an industrial human-machine design that reflects 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 patented carbon fiber board is optional, and it can also reduce low temperature rise and low noise, providing a comfortable and reliable experimental environment.

- 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 be manually opened. The patented anti-pinch function can prevent injuring fingers by hasty operations.
- The Bluetooth/Type C interface function is 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 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.
- 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.
- 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 an extraordinary experimental throughput of up to 4x750mL, this centrifuge is an ideal option for high-throughput applications. It can fast and efficiently freeze and centrifuge materials, thus being a great convenient tool for biochemistry, healthcare, food safety, life sciences, agricultural and forestry sciences, blood banks, etc.

MORE INFO

Customizable per customer needs

Tube rack	Adapter
10mL	1x1.5/2mL, 1x5mL
15mL	1x1.5/2mL, 1x5mL, 1x10mL
50mL	3x1.5/2mL, 1x5mL, 1x10mL, 1x10mL, 1x15mL, 1x20mL, 1x30mL
100mL	3x1.5/2mL, 4x5mL, 1x50mL
250mL	12x1.5/2mL, 9x5mL, 7x10mL, 1x50mL, 1x100mL
500mL	18x5mL, 12x10mL, 8x15mL, 4x50mL, 1x100mL, 1x250mL
750mL	27x5mL, 15x10mL, 12x15mL, 7x50mL, 3x100mL, 1x300mL, 1x500mL



Biolab Scientific Ltd.

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com