



## LABORATORY HIGH SPEED REFRIGERATED CENTRIFUGE BET1Q1 (BCFHR-302)

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## BET1Q1

### VERTICAL HIGH SPEED REFRIGERATED CENTRIFUGE



- With single-chip microcomputers, self-developed control boards and high-torque variable frequency AC motors, the centrifuge 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.

## SPECIFICATIONS

Model	BET1Q1
Old Model	BCFHR-302
Max capacity	4x750ml
Max speed	21,000r/min
Max RCF	31,750xg
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
Temperature control range	-20°C~+40°C
Temperature control accuracy	±1°C
Number of running programs	20
Control and drive system	High torque variable frequency AC motor, microcomputer control
Total power	2.0kW
Timer range	1min~99h59min59s, with continuous centrifugation and instantaneous centrifugation
Noise	≤65dB(A)
Rotor recognition	Auto rotor identification
Weight	150kg
Dimensions (LxWxH)	580mmx740mmx800mm
Alt Name	Vertical High Speed Refrigerated Centrifuge

## ACCESSORIES FOR PURCHASE

No	Name	Description
1	Fixed-angle Rotor 12x1.5mL/2.0mL	Max RPM: 21,000r/min Max RCF: 31,750xg
2	Fixed-angle Rotor 24x1.5mL/2.0mL	Max RPM: 16,000r/min Max RCF: 25,600xg Bio-isolated rotor cover
3	Fixed-angle Rotor 12x10mL	Max RPM: 15,000r/min Max RCF: 22,720xg Bio-isolated rotor cover

4	Fixed-angle Rotor 8x15ml (conical-bottom)	Max RPM: 12,000r/min Max RCF: 15,840xg Bio-isolated rotor cover
5	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
6	Fixed-angle Rotor 8x50ml (conical-bottom)	Max RPM: 11,000r/min Max RCF: 14,880xg Bio-isolated rotor cover
7	Fixed-angle Rotor 8x50mL (round-bottom)	Max RPM: 11,000r/min Max RCF: 14,880xg Bio-isolated rotor cover
8	Fixed-angle Rotor 6x100mL	Max RPM: 11,000r/min Max RCF: 14,640xg Bio-isolated rotor cover
9	Fixed-angle Rotor 6x250mL	Max RPM: 8,000r/min Max RCF: 10,170xg
10	Swing-out rotor 4x500ml	Max RPM: 4,000r/min Max RCF: 3,360xg
11	Swing-out rotor	Max RPM: 4,000r/min Max RCF: 3,520xg
12	Swing-out rotor	Max RPM: 5,000r/min Max RCF: 4,800xg
13	Tube rack 5mL (ordinary tube)	Number of centrifuges: 5mLx48 holes Max RPM: 4,000r/min Max RCF: 2,360xg
14	Tube rack 5mL (blood collection tube)	Number of centrifuges: 5mLx48 holes Max RPM: 4,000r/min Max RCF: 2,830xg
15	Tube rack 15mL	Number of centrifuges: 15mLx16 holes Max RPM: 5,000r/min Max RCF: 4,620xg
16	Tube rack 15mL	Number of centrifuges: 15mLx24 holes Max r/min: 4,000r/min Max RCF: 2,960xg
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: 4,620xg
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	Tube rack 100mL	Number of centrifuges: 100mLx8 holes Max RPM: 4,000r/min Max RCF: 3,070xg
22	Swing-out rotor	Max RPM: 4,000r/min Max RCF: 3,390xg
23	Tube rack 250mL (flat bottom)	Number of centrifuges: 250mLx4 holes Max RPM: 4,000r/min Max RCF: 2,840xg
24	Tube rack 250mL (conical bottom)	Number of centrifuges: 250mLx4 holes Max RPM: 4,000r/min Max RCF: 3,390xg Suitable for imported conical bottom bottles
25	Microplate Rotor 2x2x96 holes	Max RPM: 4,000r/min Max RCF: 2,360xg
26	Microplate Rotor 4x2x96 holes	Max RPM: 4,000r/min Max RCF: 3,000xg



## FEATURES

- With single-chip microcomputers, self-developed control boards and high-torque variable frequency AC motors, the centrifuge can run stably with lower noise, allowing for a comfortable laboratory environment.
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- TFT-LCD true color display screen, touch screen keys, 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 (Chinese, English, Russian, Portuguese).
- 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 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.
- 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; modification of control parameters of the running rotor at any time.
- Multi-specification forged aerospace aluminum rotors (fix-angle rotors only) and a variety of optional polyamide fiber adapters, suitable for 1.5mL to 750mL centrifuge tubes or reagent bottles and are able to centrifuge all types of MTP microplates, PCR plates, cell culture plates and deep well plates.
- Casters and carbon steel caster adjustment blocks at the bottom for easy movement and level adjustment of the device.
- CFDA registration and production qualification, with ISO 9001 (2015) and ISO 13485 (2016) certifications.

## APPLICATIONS

With an extraordinary experimental throughput of up to 4x750mL, HR/T20MM is an ideal floor-standing centrifuge with a high speed and high through put as well as extraordinary versatility. It is an ideal instrument for sample separation, precipitation, concentration, and preparation, mainly used in fields such as biochemistry, medical and health, food and safety, life science, agriculture and forestry science, animal husbandry science, blood bank, blood center, biological products, and pharmaceutical products. In 2016, it won the title of Excellent China-made Instruments granted by [www.instrument.com.cn](http://www.instrument.com.cn).

## 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



**Biolab Scientific Ltd.**

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

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)