

Benchtop Refrigerated Centrifuge

Cat No: BTC-M-R21000

MOLEQULE-ON[®]



Description

BTC-M-R21000 Benchtop Refrigerated Centrifuge is a robust and versatile machine with improved ergonomics for ease of use and user-intuitive touch screen capabilities to help save you time. It adopts maintenance-free induction motor driving, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guard ring, steel lid, electronic lid interlock, automatic rotor identification, imbalance protection and other safety technologies for safe operation. TECUMSEH compressor and CFC-free refrigerant are adopted for the refrigeration system. The operation parameters such as rotational speed/centrifugal force, time, temperature can be modified during operation. The self trouble diagnosis system can detect speed, lid lock, motor failure and many other kinds of fault automatically and show the fault code. Flexible combinations for healthcare, research or industrial applications, conduct multiple research protocols on one centrifuge. Safety, performance and operation simplified at every run.

Features

- Provides temperature range from -20°C to +40°C
- Can reached a maximum of 21000 rpm (depending on the rotor)
- Maintenance-free induction motor
- Modern, graphic user-intuitive touchscreen interface enables easy access and programming for faster results.
- Automatic rotor identification technology with overspeed protection for maximum operational safety.
- Electronic lid interlock for safe operation.
- Has both pre-cooling function and standby cooling function.

Safety Features

- Standby cooling function holds temperature when centrifuge is not in use to keep your samples stay cool.
- Emergency lid lock release.
- Chamber overheating protection.
- Motor overheating protection.
- Lid dropping protection.
- Three-axis gyroscope monitors balance state throughout the whole run process, imbalance switch off.
- The centrifuge housing made of high quality steel which was electrostatic powder coated, anti-rusting and anti-corrosive.

Specifications

Model	BTC-M-R21000
Power supply	230V 50Hz/60Hz
Swing-Bucket Rotors	
Max. Capacity	4 x 750ml
Max. Speed	4500rpm with 4 x 250ml rotor
Max. RCF	3720 x g with 4 x 250ml rotor
Fixed-Angle Rotors	
Max. Capacity	6 x 100ml
Max. Speed	21000rpm with 12 x 1.5/2.0ml rotor
Max. RCF	30810 x g with 1.5/2.0ml rotor
Control System	Microprocessor
Refrigeration System	CFC-Free
Drive System	Direct, induction motor drive (Inverter Control)
Display	Full color touchscreen interface
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion
Programmability	via easy access touchscreen menu
Running Time	1 s - 99 h : 59 min : 59 s
Timer	Count up or down
Speed Accuracy	± 10 r/min
Accel/Decel Profiles	40/40
Temp. Control Range	-20 °C to 40 °C
Temp. Accuracy	± 1 °C
Noise Level	≤ 56 dB(A)
Max. Power Consumption	1.5 KW

Accessories (Optional, not included in Centrifuge)

RPM	RCF	Tube Size and Quantity	Cat # Rotor
21000	30810	Fixed Angle Rotor 12 x 1.5/2.0ml	MQ-R-2172101F
17000	23430	Fixed Angle Rotor 12 x 5ml	MQ-R-2172102F
16500	26330	Fixed Angle Rotor 24 x 1.5/2.0ml	MQ-R-2172103F
15000	20800	Fixed Angle Rotor 12 x 10	MQ-R-2172104.1F
15000	20800	Fixed Angle Rotor 36 x 1.5/2.0ml	MQ-R-2172104.2F
15000	20800	Fixed Angle Rotor 8 x 15ml	MQ-R-2172104.3F
13000	18420	Fixed Angle Rotor 6 x 50ml	MQ-R-217210f-1F
13000	18420	Fixed Angle Rotor 48 x 1.5/2.0ml	MQ-R-217210f-2F
13000	18420	Fixed Angle Rotor 6 x 50ml	MQ-R-217210f-3F
11000	13340	Fixed Angle Rotor 4 x 100ml	MQ-R-2172106-1F
11000	13340	Fixed Angle Rotor 8 x 50ml	MQ-R-2172106.2F
11000	13340	Fixed Angle Rotor 12 x 15ml	MQ-R-2172106.3F
11000	13340	Fixed Angle Rotor 8 x 50ml	MQ-R-2172106.4F
11000	13340	Fixed Angle Rotor 24 x 10ml	MQ-R-2172106.5F
4000	1970	Swing Bucket Rotor 2 x 3 (96 well) Microplate	MQ-R-2172107S
4500	3720	Swing Bucket Rotor 4 x 250ml	MQ-R-2172108S.1
4500	3720	Swing Bucket Rotor 4 x 100ml	MQ-R-2172108S.1.1
4200	3550	Swing Bucket Rotor (Round) 4 x 500ml	MQ-R-2172109.1S.1
4200	3550	Swing Bucket Rotor (Round) 4 x 250ml	MQ-R-2172109.1S.1.1
4000	3500	Swing Bucket Rotor 4 x 750ml	MQ-R-2172110.1S