

MQ Benchtop Centrifuge (165000)

Cat No: BTC-M-16500

MOLEQULE-ON®



Description

MQ Benchtop Centrifuge (16500) adopts maintenance-free induction motor driving, microprocessor control, user-intuitive touchscreen interface display, steel housing, corrosion-resistant stainless steel centrifuge chamber, steel lid, electronic lid interlock, automatic rotor identification with overspeed protection, imbalance protection and other safety technologies for safe operation. It can store 1000 programs and there are 40 acceleration rates and 40 deceleration rates available for daily use. The operation parameters such as running time, running speed/centrifugal force, deceleration rate 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.

Features

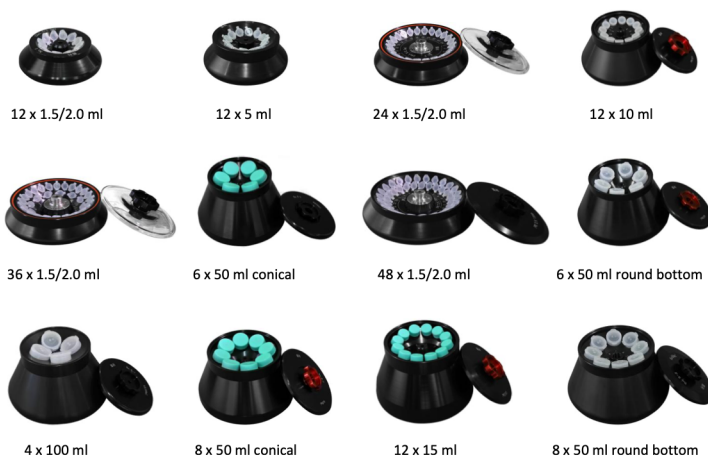
- Modern, graphic user-intuitive touchscreen interface enables easy access and programming for faster results.
- Entering parameters by tapping icons in the touchscreen then entering digits on the keypad directly, simple and time-saving.
- Easy access all centrifuge menus including settings, saved programs, function menu, icons of start/stop and lid open, simple one-handed operation with gloves on or without glove.
- Intelligentized status display, easily monitor your run progress with tracker bar which including the enlarged speed/RCF, time.
- The “Main” screen displays the main operating parameters of the unit, including saved programs, rotor no., current speed/RCF, speed setpoint, RCF setpoint, current runtime, runtime setpoint, acceleration as well as deceleration profiles. When alarms occur, this part of the display screen shows alarm information.

- Automatic rotor identification technology with overspeed protection for maximum operational safety.
- Electronic lid interlock for safe operation.
- 40 acceleration rates, 39 deceleration rates and unbraked deceleration for sensitive sample material.
- Multi-stage centrifugal mode (max up to 5 stages of speed & time) is available.
- Three-axis gyroscope monitors balance state throughout the whole run process.
- Emergency lid lock release.
- Lid dropping protection.
- Easy rotor changing.
- A large variety of rotors and accessories optional, broad choice of speed, capacity and application.
- Self trouble diagnosis system can detect speed, lid lock, motor failure and many other kinds of fault automatically and show the solutions if any problem occurs.
- The centrifuge housing made of high quality steel which was electrostatic powder coated, antirusting and anti-corrosive.
- Quiet operation design to operate at low noise levels for a relaxing work environment.

Design and Safety Parameters

- Manufactured according to latest international safety regulations (EN 61010-1:2010, EN 61010-2-020:2006, EN 61000-3-2:2014, EN 61000-3-3:2013, etc.).
- Compact footprint saves valuable bench space.
- Automatic rpm/rcf conversion.
- Entering speed in both rpm and rcf.
- Speed range from 200 rpm to 16500 rpm.
- Rotors are in aeronautical aluminum (anodized), corrosion resistant, chemical resistant and organic solvents resistant.
- All rotors/adapters are autoclavable (121 °C, 20 min) to keep your lab and hands free of contamination.
- Corrosion-resistant 304 stainless steel centrifuge chamber, steel centrifuge housing and steel lid for safe operation.
- Maintenance-free induction motor controls speed.
- Viewing port in the lid for external speed monitoring.
- Lid opens easily via pneumatic springs.
- Lid open/close detector.
- Lid locking and holding during rotor run, centrifugation process can not start when lid is not lock.
- Auto power motor off when open lid.
- Overcurrent protection.
- Run the unit in continuous mode or timed mode.
- Entering the running time in the range of 1 s to 99 h 59 min 59 s.
- Safety, performance and operation simplified at every run. Durable, energy efficient and especially user-friendly.

Choices of Rotors



Specifications

Model	BTC-M-16500	
Control system	Microprocessor	
Drive system	Direct, induction motor drive	
Display	Full color touchscreen interface	
Rotor identification	Auto-ID instant	
Multi-stage centrifugal mode	Max up to 5 stages of speed and time	
User lockout function	Yes	
Program storage	1000 user-defined	
Fixed-Angle Rotors	Max. capacity	6 x 100ml
	Max. speed	16500 rpm with 12x1.5/2.0ml
	Max. RCF	24760 xg with 24 x 1.5/2.0ml
Swing-Bucket rotors	Max. capacity	2 x 2 microplates (48 wells)
	Max. speed	4000 rpm with 2x2 microplate rotor
	Max. RCF	1500 xg with 2x2 microplate rotor
Running time	1s – 99 h: 59 min: 59s	
Timer	Count up or down	
Speed accuracy	±10 r/min	
Accel/Decel profiles	40/40	
Noise Level	≤60 dB (A)	
Power supply	AC 200-240V, 50/60Hz	

ROTORS:				
Rotor No.	Rotor Capacity (places x volume, ml)	Tube Size (Φ x L in mm)	Max Speed (rpm)	Max RCF (g)
No.1 Fixed-Angle Rotor	12 x 1.5/2.0 ml (with adapters for 0.2/0.5ml tube)	Φ 11 x 42	16 500 rpm	19 000 Xg
No.2 Fixed-Angle Rotor	12 x 5 ml	Φ 14 x 54	15 000 rpm	18 240 Xg
No.3 Fixed-Angle Rotor	24 x 1.5/2.0 ml (with adapters for 0.2/0.5ml tube)	Φ 11 x 42	16 000 rpm	24 760 Xg
No.4-1 Fixed-Angle Rotor	12 x 10 ml	Φ 16 x 86	13 000 rpm	15 630 Xg
No.4-2 Fixed-Angle Rotor	36 x 1.5/2.0 ml (with adapters for 0.2/0.5ml tube)	Φ 11 x 42		
No.5-1 Fixed-Angle Rotor	6 x 50 ml (conical)	Φ 29 x 116	12 000 rpm	15 700 Xg
No.5-2 Fixed-Angle Rotor	48 x 1.5/2.0 ml (with adapters for 0.2/0.5ml tube)	Φ 11 x 42		
No.5-3 Fixed-Angle Rotor	6 x 50 ml (round bottom)	Φ 29 x 111		
No.6-1 Fixed-Angle Rotor	4 x 100 ml	Φ 37 x 123	10 000 rpm	11 020 Xg
No.6-2 Fixed-Angle Rotor	8 x 50 ml (conical)	Φ 29 x 116		
No.6-3 Fixed-Angle Rotor	12 x 15 ml	Φ 17 x 121		
No.6-4 Fixed-Angle Rotor	8 x 50 ml (round bottom)	Φ 29 x 111		
No.6-5 Fixed-Angle Rotor	24 x 10 ml	Φ 16 x 86		
No.7 Fixed-Angle Rotor	6 x 10 ml	Φ 16 x 86	16 000 rpm	18 950 Xg
No.8-1 Fixed-Angle Rotor	8 x 15 ml	Φ 17 x 121	13 000 rpm	14 930 Xg
No.8-2 Fixed-Angle Rotor	6 x 30 ml	Φ 25.5 x 100		
No.9 Fixed-Angle Rotor	4 x PCR-Strips	-	13 000 rpm	14 640 Xg
No.10 Fixed-Angle Rotor	6 x 100 ml	Φ 37 x 123	8 000 rpm	7 720 Xg
No.11 Swing-Bucket Rotor	2 x 2 pcs microplates (48 wells)	Load dimensions (WxDxH) up to 128x48x60mm	4 000 rpm	1 500 Xg