

Benchtop Refrigerated Centrifuge (18500)

Cat No: BTC-M-R18500

MOLEQULE-ON[®]



Description

MOLEQULE-ON Benchtop Refrigerated Centrifuge is durable with improved ergonomics for easy to use and user-intuitive touch screen capabilities to help save your time. Maintenance-free induction motor driving, steel housing, corrosion-resistant stainless-steel centrifuge chamber with additional inner steel armored guard ring, steel lid, electronic lid interlock, automatic rotor identification, 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. For refrigeration system high quality **TECUMSEH** compressor and CFC-free refrigerant are used. 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. Good choice for healthcare, research or industrial applications, end user can conduct multiple protocols on one centrifuge with large rotor selection.

Features

- Rotor speed can be set and displayed by RPM or G-force.
- 1000 user defined programs can be stored for routine practice.
- Rotor capacity ranges from 24 x 1.5 / 2 ml to 4 x 250 ml tubes. (See Rotor Guide).
- Easy-to-read processing display and sound alert.
- Automatic lid-lock release after running.
- Maintenance-free brushless DC motor.

Specifications

Model	BTC-M-R18500
Swing-Bucket Rotors	
Max Capacity	4 x 250 ml
Max. Speed	4 500 rpm with 4 x 250 ml rotor
Max. RCF	3 720 Xg with 4 x 250 ml rotor
Fixed-Angle Rotors	
Max. Capacity	4 x 100 ml / 8 x 50 ml
Max. Speed	18500 rpm with 12 x 1.5/2.0 ml
Max. RCF	21 630 Xg with 24 x 1.5/2.0 ml
Plate Rotor	
Max. Capacity	2 x 3 pcs Microplates (96 well) or 2 x 3 pcs Microtiter Plates or 2 x 2 pcs Cell Culture Plates or 2 x 1 pc Deep Well Plates
Max. Speed	4 000 rpm
Max. RCF	1 970 Xg
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
Program Storage	1 000 user-defined
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)
Power Supply	AC 200-240 V, 50/60 Hz or AC 100-127 V, 50/60 Hz
Max. Power Consumption	1.2 KW
Dimension (W x D x H)	25.2 x 22 x 15.4 in / 64 x 56 x 39 cm
Weight w/o Rotor	176 lb / 80 kg

Rotors Guide:

Rotor No. with Description	Rotor Capacity (places x volume,ml)	Tube Size (Φ x L in mm)	Max Speed (rpm)	Max RCF (g)	Cat. No.
No. 1 Fixed-Angle Rotor	12 x 1.5/2.0 ml (with adapters for 0.2/0.5ml tube)	Φ 11 x 42	18 500 rpm	20,050 g	MQ-M-2171701F
No. 2 Fixed-Angle Rotor	12 x 5 ml	Φ 14 x 54	15 000 rpm	18,270 g	MQ-M-2171702F
No. 3 Fixed-Angle Rotor	24 x 1.5/2.0 ml (with adapters for 0.2/0.5ml tube)	Φ 11 x 42	15 000 rpm	21,630 g	MQ-M-2171703F
No. 4.1 Fixed-Angle Rotor	12 x 10 ml	Φ 16 x 86	13 000 rpm	15,620 g	MQ-M-2171704.1F
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			MQ-M-2171704.2F
No. 5.1 Fixed-Angle Rotor	6 x 50 ml (conical)	Φ 29 x 116	12 000 rpm	15,970 g	MQ-M-2171705.1F
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			MQ-M-2171705.2F
No. 5.3 Fixed-Angle Rotor	6 x 50 ml (round bottom)	Φ 29 x 111			MQ-M-2171705.3F
No. 6.1 Fixed-Angle Rotor	4 x 100 ml	Φ 37 x 123	11 000 rpm	12,870 g	MQ-M-2171706.1F
No. 6.2 Fixed-Angle Rotor	8 x 50 ml (conical)	Φ 29 x 116			MQ-M-2171706.2F
No. 6.3 Fixed-Angle Rotor	12 x 15 ml	Φ 17 x 121			MQ-M-2171706.3F
No. 6.4 Fixed-Angle Rotor	8 x 50 ml (round bottom)	Φ 29 x 111			MQ-M-2171706.4F
No. 6.5 Fixed-Angle Rotor	24 x 10 ml	Φ 16 x 86			MQ-M-2171706.5F
No. 7 Fixed-Angle Rotor	6 x 10 ml	Φ 16 x 86	16 000 rpm	19,070 g	MQ-M-2171707F
No. 8.1 Fixed-Angle Rotor	8 x 15 ml	Φ 17 x 121	13 000 rpm	15,620 g	MQ-M-2171708.1F
No. 8.2 Fixed-Angle Rotor	6 x 30 ml	Φ 25.5 x 100			MQ-M-2171708.2F
No. 9 Swing-Bucket Rotor	2 x 3 pcs microplates (96 wells) or 2 x 3 pcs microtiter plates or 2 x 2 pcs cell culture plates or 2 x 1 pc deep well plates	Load dimensions (WxDxH) up to 128x87x60 mm	4 000 rpm	1,970 g	MQ-M-2171709S

Large Selection of Rotors:



12 x 1.5/2.0 ml



12 x 5 ml



24 x 1.5/2.0 ml



12 x 10 ml



36 x 1.5/2.0 ml



6 x 50 ml conical



48 x 1.5/2.0 ml



6 x 50 ml round bottom



4 x 100 ml



8 x 50 ml conical



12 x 15 ml



8 x 50 ml round bottom



6 x 10 ml



8 x 15 ml



6 x 30 ml



2 x 3 pcs microplates



4 x 250 ml



8 x 50 ml conical



20 x 15 ml



36 x 10 ml



28 x 4-10 ml blood collection/urine tube



40 x 1.6-7 ml blood collection/urine tube



48 x 1.6-7 ml blood collection/urine tube



64 x 1.6-7 ml blood collection/urine tube