



Benchtop High Speed Refrigerated Centrifuge (BL-TGL-1850)

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The BL-TGL-1850 is a compact and lightweight benchtop high-speed refrigerated centrifuge, designed to save space and enhance laboratory efficiency. With a maximum speed of 14000rpm, it features advanced imbalance detection via a three-axis gyroscope, precise temperature control using CFC-free refrigerants, and an intuitive LCD touch screen for real-time status monitoring and easy operation.



Highlights

- ◆ Compact and Lightweight Design: Space-saving and easy to move, ideal for small lab environments.
- ◆ Advanced Imbalance Detection: Automatic imbalance correction using a three-axis gyroscope for stable and secure operation.
- ◆ Precise Temperature Control: CFC-free refrigerants with variable frequency compressors and PID control for $\pm 1^{\circ}\text{C}$ accuracy.
- ◆ User-Friendly Interface: LCD touch screen with real-time status display and modifiable parameters during operation.

The BL-TGL-1850 benchtop high-speed refrigerated centrifuge offers a streamlined design that is both space-saving and lightweight, making it an ideal addition to any lab. Powered by a frequency conversion motor, it ensures stable operation while its microcomputer control system provides advanced functionality through an easy-to-use LCD touch screen. The centrifuge's intelligent detection system includes imbalance protection, and it features an automatic locking system for enhanced safety during operation.

With a maximum speed of 14000rpm, this centrifuge delivers high performance, supported by a three-axis gyroscope for automatic imbalance correction. The refrigeration system utilizes CFC-free refrigerants and variable frequency compressors to maintain precise temperature control, ensuring $\pm 1^{\circ}\text{C}$ accuracy. Users can easily adjust operating parameters during operation and store custom programs, including direct setup of Relative Centrifugal Force (RCF). The unit is also equipped with adjustable acceleration and deceleration settings, providing greater flexibility for various applications.



Features

- ◆ Space-Saving and Lightweight Design: The centrifuge is built with a streamlined and compact structure, taking up minimal space in the lab. Its lightweight design makes it easier to handle and transport compared to traditional heavy models.
- ◆ Frequency Conversion Motor: Provides stable operation and ensures high performance with minimal vibration or noise. The motor supports speeds up to 14000rpm, making it ideal for high-speed applications.
- ◆ Advanced Safety Features: Equipped with a microcomputer control system and automatic locking mechanism for safe operation. The intelligent imbalance protection system, driven by a three-axis gyroscope, automatically detects and corrects any imbalances during use.
- ◆ Precision Cooling System: Features a variable frequency compressor and CFC-free refrigerants to achieve accurate temperature control within a $\pm 1^{\circ}\text{C}$ range. The refrigeration system ensures optimal sample preservation and operational efficiency.
- ◆ LCD Touch Screen Interface: The centrifuge comes with an intuitive LCD touch screen that displays real-time status updates and allows easy parameter modification, even during operation. Users can directly set RCF values and store custom programs, offering greater flexibility and convenience.





Features

- ◆ **Programmable Settings:** The centrifuge allows for customized procedures with adjustable acceleration and deceleration rates. Users can store their programs, and the parameters can be changed during ongoing centrifugation for added versatility.
- ◆ **Rotor Compatibility:** Supports angle head rotors for various tube sizes, including 1.5/2.2ml, 5ml, and 0.2ml tubes, offering flexibility for different sample volumes and types.



Specifications

Model	BL-RGL-1850
Max Speed	14000rpm
Max Centrifugal Force	18800Xg
Max Capacity	12*5ml
Speed Accuracy	±10rpm
Timing range	1s-999min59s
Temp. range	-10°C~35°C
Temp. Accuracy	±1°C
Noise	≤58dB(A)
Power Supply	AC 220V 50HZ 15A
Dimension	420*285*285mm (L*W*H)
Weight	19kg
Power	800W
Motor	Variable frequency motor
Display	LCD touch screen
Intelligence detection	Yes
RCF can be set directly	Yes
Can reset operation parameters	Yes
Adjustable acceleration and deceleration rate	Yes
Can store programs	Can store programs commonly used
Compressor	Variable frequency compressor
Door lock	Self-priming Lock
Matched rotors	3 rotors



Accessories

Available Rotors

Rotor	Capacity	Max Speed (BL-RGL-1850/2150)	Max RCF (BL-RGL-1850/2150)
BL-RGL-1821-R1	24x1.5/2.2ml	14000 / 15000 rpm	18800/ 21360 Xg
BL-RGL-1821-R2	4x8x0.2ml	14000 / 15000 rpm	18800/ 21360 Xg
BL-RGL-1821-R3	12x5ml	14000 / 15000 rpm	15880/ 18270 Xg



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