



Benchtop High Speed Refrigerated Centrifuge (BL-TGL-20S)

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This high-performance refrigerated centrifuge features advanced RFID rotor identification, a three-axis gyroscope for precise imbalance correction, and a powerful variable frequency motor for stable operation. With an easy-to-use LCD touch screen and intelligent real-time status display, it offers maximum speeds of up to 20000rpm and precise temperature control from -20°C to +40°C.



Highlights

- ◆ Advanced RFID Rotor Identification: Recognizes rotors without spin, ensuring accurate identification.
- ◆ High-Speed Precision: Reaches up to 20000rpm with three-axis gyroscope imbalance detection.
- ◆ Precise Temperature Control: $\pm 1^{\circ}\text{C}$ accuracy with a temperature range from -20°C to +40°C using PID control.
- ◆ User-Friendly Interface: LCD touch screen with real-time status, easy parameter setting, and operation flexibility.

This state-of-the-art refrigerated centrifuge is engineered for precision and efficiency in laboratory operations. It utilizes an RFID rotor identification system that recognizes rotors without the need for spin, ensuring seamless operation and rotor safety. With a maximum speed of 20000rpm and advanced imbalance detection via a three-axis gyroscope, this centrifuge guarantees reliable and smooth performance. Temperature control is highly accurate, maintained within $\pm 1^{\circ}\text{C}$ using a PID dynamic control system, supporting sample preservation.

The intuitive LCD touch screen provides user-friendly operation with real-time intelligent status displays. The centrifuge supports up to 1000 user-defined programs with password protection, allowing for multi-stage centrifugation with up to 5 stages. The robust design includes a variable frequency motor, steel housing, and a stainless-steel chamber, ensuring long-term durability and consistent operation. Additionally, it features a flexible refrigeration system with a temperature range from -20°C to +40°C, using an eco-friendly, CFC-free refrigerant.



Features

- ◆ RFID Rotor Identification: Automatically recognizes the rotor without spinning, providing seamless operation and eliminating manual intervention.
- ◆ High-Speed Capability: Operates at a maximum speed of 20000rpm, supported by a variable frequency motor for stability and smooth operation. The three-axis gyroscope ensures precise imbalance detection and correction.
- ◆ Temperature Control: The refrigerated system includes a CFC-free refrigerant and operates within a temperature range of -20°C to +40°C with $\pm 1^{\circ}\text{C}$ accuracy. The PID dynamic control ensures precise temperature regulation during operation, safeguarding sample integrity.
- ◆ User Interface: The centrifuge is equipped with a user-friendly LCD touch screen that allows easy parameter settings, even with gloves. The screen displays real-time status updates and enables parameter adjustments during rotor operation.
- ◆ Direct Relative Centrifugal Force (RCF) setting with automatic speed conversion
- ◆ Capability for up to 1000 user-defined programs with password protection





Features

- ◆ Multi-stage centrifugation up to 5 stages for complex workflows
- ◆ Flexible timer settings with count-up and count-down modes
- ◆ Speed, RCF, and temperature displayed via curves for real-time monitoring
- ◆ Refrigeration System: Features an imported compressor unit for effective refrigeration, automatic power-on cooling, and operation mode cooling. The chamber is equipped with a temperature sensor for real-time feedback.
- ◆ Mechanical Integrity: Built with durable steel housing and a medical-grade stainless steel chamber, the centrifuge is designed for longevity. The autoclavable rotors and advanced imbalance detection provide extra safety and reliability.



Specifications

Model	BL-RGL-20S
Max Speed	20000
Max RCF	31370
Max Capacity	6x100ml
Temperature Range	-20°C ~ +40°C
Temperature Accuracy	±1°C
Speed Accuracy	±10rpm
Time Setting	1s ~ 99h59m59s
Noise	≤57dB (A)
Power Consumption	1200w
Dimension	420x520x360mm
Weight	62kg



Accessories

Available Rotors

BL-TGL-20-R1	12 x 1.5 /2.2 ml
BL-TGL-20-R2	12 x 5 ml
BL-TGL-20-R3	24 x 1.5/2.2 ml
BL-TGL-20-R4	12 x 10 ml
BL-TGL-20-R5	6 x 50 ml
BL-TGL-20-R6	4 x 100 ml
BL-TGL-20-R7	8 x 50 ml
BL-TGL18-R8	8 x 15 ml
BL-TGL-18-R9	4 x (8 x 0.2 ml PCR tubes)
BL-TGL-18-R10	6 x 100 ml



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