



## Product Overview

The Laboratory Centrifuge with Cooling is a high-speed, bench-top centrifuge engineered for precise separation of micro-volume samples. Featuring microprocessor-based control, silent operation, and an integrated cooling system, the centrifuge is ideal for temperature-sensitive applications in research, clinical, and academic laboratories. Robust construction, advanced safety features, and user-friendly operation ensure reliable and repeatable performance.

## Key Features

- High-speed, high-capacity bench-top laboratory centrifuge with microprocessor-based control
- Heavy-duty C.R.C. body construction with durable powder-coated finish
- Noiseless operation supported by a soft suspension system
- Equipped with Delta (Taiwan) VFD and SMPS for stable electrical performance
- Stainless Steel **SS 304 grade rust-free centrifugal bowl** for enhanced durability and easy cleaning
- Well-balanced **brushless motor with electronic drive** for smooth and long-lasting operation
- Digital timer adjustable from **0 to 99 minutes**
- **4-line, 20-character jumbo LCD display** indicating:
  - Set time and run time
  - Set and run RPM
  - RCF value

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- Rotor identification
- User-friendly control panel
- Programmable acceleration time and programmable deceleration time with advanced coast feature
- Automatic rotor identification system
- Electronic lid lock preventing lid opening during operation and automatic unlocking after rotor stops
- Automatic dynamic braking and imbalance detection system
- Fast spin option for rapid operation
- Automatic recall and display of last test parameters
- Speed increment of 100 RPM
- Noise level less than 68 dB at a distance of 1 meter
- Integrated standard cooling unit for low-temperature operation
- Supplied complete with instruction manual, power cord, and plug suitable for 220 V, 50 Hz AC

**Technical Specifications – Centrifuge Unit**

Parameter	Specification
Type	Bench Top Laboratory Centrifuge with Cooling
Control System	Microprocessor based
Maximum Speed	Not less than 20,000 RPM
Maximum Relative Centrifugal Force (RCF)	Up to 27800 × g
Acceleration Time	≤ 15 seconds
Cooling Range	0°C to 40°C
Temperature Control	Integrated standard cooling unit
Speed Increment	100 RPM
Timer Range	0 – 99 minutes
Display	4-line, 20-character Jumbo LCD
Noise Level	< 68 dB at 1 meter
Safety Features	Electronic lid lock, imbalance detector, dynamic brake
Construction	Powder-coated C.R.C. body with SS 304 centrifugal bowl

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Parameter	Specification
Power Supply	220 V ±10%, 50 Hz AC
Dimensions (WxDxH)	≤ 30 × 60 × 50 cm Aprox

**Rotor Specifications**

Parameter	Specification
Rotor Compatibility	24x1.5/2.0ml angle rotor with 16,000RPM
Tube Capacity	24 tubes of 1.5 / 2.0 ml
Rotor Identification	Automatic rotor identification supported
Material	High-strength, corrosion-resistant material
Safety	Dynamically balanced for safe high-speed operation

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