

# Desktop High-speed Refrigerated Microcentrifuge

— LX-165T2R



## Scope of Application

Mainly used for nucleic acid extraction, DNA/RNA separation, purification, virus separation and protein precipitation in the laboratory. Widely used in universities, third party testing organizations, disease prevention, medical and health, biological pharmaceutical and other related fields.

- High-performance, dual frequency conversion refrigeration technology rapidly cools to 4°C in 5 minutes to speed up processing time.
- Stable, ergonomic design with low centre of gravity, balance detection and real-time vibration monitoring for optimal safety.
- Automatic rotor ID, rotor information and service life statistics can be traced.
- Equipped with a 24-well 1.5/2.0 ml centrifuge tube rotor with a maximum centrifugal force of 25,872 xg.
- 7-inch interactive touchscreen with intuitive controls and easy-to-read displays.



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## Product Advantages

### Smart and Intelligent Control, Superior Safety

Large smart screen controller provides an interactive interface which is easy to operate even in gloves.

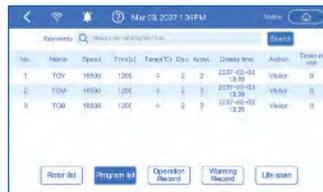
The main control interface shows a digital display with the following information:
 

- Target speed/centrifugal force setting: 16500 RPM / RCF
- Real-time speed display: 0 RPM
- Temperature setting and real-time temperature display: 23°C (setpoint) and 4°C (actual)
- Unlimited program library storage, quick access to programs, supports customised programs for safety.
- Fast refrigeration, fast centrifugation, intelligent start-stop protection, safety with lid closing status displayed.

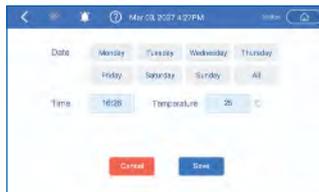
### Intelligent Centrifugal Management System



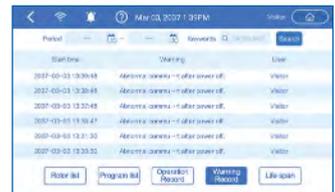
Operation failure detection, rotor and machine service life monitoring.



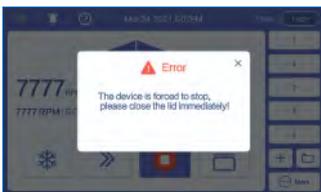
Intelligent storage of centrifugal programs, quick access to programs.



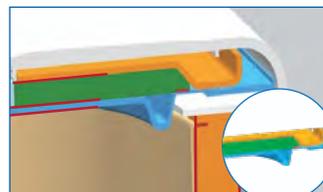
Fast refrigeration preset, saves time.



View abnormal alarms



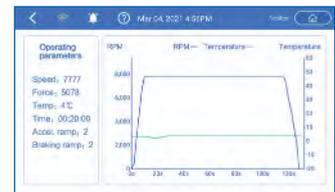
Intelligent lid locking monitoring and automatic self-locking to ensure safe operation.



Safer by design, triple-layer construction to ensure safe use.



Multi-level user management, effectively protects personal data.

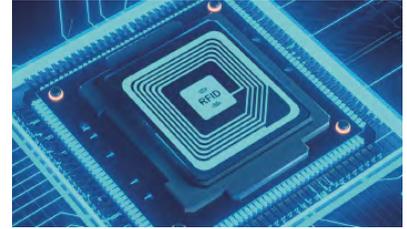


Intelligent monitoring of temperature, speed, vibration and rotor to ensure reliable operation.

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## ➤ Auto-ID Instant Rotor Identification and Rotor Service Life Statistics

- Auto-ID instant rotor identification: Install the rotor and the centrifuge will automatically identify the rotor model to ensure safe operation within rotor model limits.
- Rotor ID: each rotor is equipped with a unique ID which enables traceability of rotor information.
- Rotor service life statistics: rotor service time is recorded on the terminal and provide early warning as the rotor reaches the end of its service life.

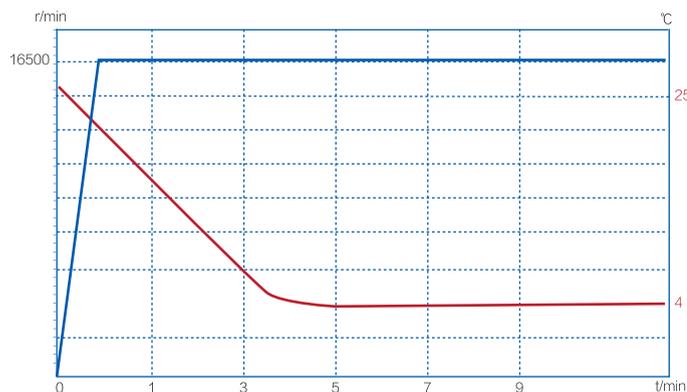


## ➤ Balance Detection

- Vibration monitoring of the whole machine: designed with six-axis gyroscope technology, the machine will stop automatically if the vibration exceeds safe limits.
- Rotor balancing detection: dynamic monitoring of the centrifugal process, active recognition of balance errors and automatic shutdown control.
- Centrifuge balancing detection: built-in electronic gradiometer, automatically monitor the unit balancing status.



## ➤ Precise Temperature Control and Ultra-fast Refrigeration



- Dual frequency conversion refrigeration technology ensures rapid refrigeration, reducing waiting time.
- High precision throttling technology proactively adjusts to provide precise temperature control.
- Seamless copper tube wrapping technology to achieve high efficiency heat transfer.

## ➤ Leading Global Manufacturer, Quality and Safety Guaranteed

- Extensive quality assurance and testing process ensures the reliability of operation.
- High-precision speed control technology to ensure the accuracy of experimental data.
- Advanced dynamic balance monitoring technology to ensure the safe operation of the rotor.



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## Ergonomic Design



### Ergonomic Design

Designed with multiple user applications, the touchscreen is angled to provide a clear view and is comfortable and practical for users of all heights.



### Smart Lid Lock

The automatic lid lock monitors the lid closing status, as the door is closed, it will tighten automatically indicating when the unit is safe to use.



### USB Interface



Data can be exported using a USB interface, such as operational records, error records.

## Specifications



Model	Max speed (r/min)	Speed Accuracy (rpm)	Max RCF (xg)	Sound level (dB)	Temperature Setting Range( C )	Timer	External Dimensions (W*D*H mm)
LX-165T2R	16,500	±10	25,872	≤ 52	-20-40	1s~99 hours 59 mins 59s	340*625*248

## Rotor Configuration List



Code	BE12C0Z00	BE11D0Z00	BE12E0Z00	BE12D0Z00
Picture				
Rotor Type	Standard fixed-angle rotor (Plastic cover)	Optional fixed-angle rotor (Sealed)	Optional fixed-angle rotor	Optional fixed-angle rotor (Sealed)
Max Capacity	24×1.5/2 ml	24×1.5/2 ml	4×8×0.2 ml PCR tube	12×5 ml
Max RCF (xg)	25,872	21,382	18,900	21,400
Max Speed (r/min)	16,500	15,000	15,000	15,000
Tube Size (Φ×L)	11×38	11×38	6×18	14×75