

# Benchtop 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.



Short pre-cooling time of only 5 minutes from room temperature to 4°C



Precise temperature and centrifugal speed control ensures optimal separation results



Optimized sound design for low noise levels( $\leq 46\text{dB(A)}$ )

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**Product Features**



Short pre-cooling time of only 5 minutes from room temperature to 4°C



Fast sample processing at maximum speeds of up to 16,500 rpm (25,872 x g)



Precise temperature and centrifugal speed control ensures optimal separation results



Use of brushless induction motors to provide maintenance-free operation, eliminating carbon particle emissions



Optimized sound design for low noise levels (≤46dB(A))



Automatic radio-frequency rotor identification (RFID) and rotor life monitoring for maximum operational safety



Real time loading imbalance detection, immediate shutdown protection in case of imbalance

**Intuitive Interface**



The 7-inch 45° glove-friendly touchscreen, the wide viewing angle more comfortable and practical for users of all heights



Further enhanced with access controls such as user login with password protection, the independent program data of each user is managed separately



Quick recall of up to 1000+ programs with alpha-numeric naming to minimize time between runs and for quick run start by routine users



The speed, centrifugal force, time and temperature can be changed by user during the centrifugation process



2 acceleration + 2 deceleration stages

The screenshot shows the following interface elements:

- Top Bar:** Status icons (Wi-Fi, alarm, help), time (7:39PM), date (03 Jan 2011), and user status (Visitor, Login).
- Control Panel:** A balance scale icon with '2' on both sides, indicating acceleration/deceleration settings.
- Display Area:** Shows '0 RPM' (target speed), '00:00:00' (time), and '23°C' (real-time temperature). Below this, it shows '16500 RPM / RCF' and '00:20:00' (program time).
- Bottom Row:** Four large touch buttons: a snowflake (fast refrigeration), a double right arrow (fast centrifugation), a play button (intelligent start-stop), and a lid icon (lid-closing status).
- Right Side:** A vertical list of program numbers (1-5) and a 'More' button for program storage.

Callouts from the image:

- Acceleration/Deceleration setting:** Points to the balance scale icon.
- Target speed/centrifugal force and real-time speed display:** Points to the '0 RPM' and '16500 RPM / RCF' display.
- Temperature set-point and real-time temperature display:** Points to the '23°C' and '4°C' display.
- Quick access to stored programs. 1000+ program storage, supports customized programs for convenient:** Points to the program list on the right.
- Clear one-touch buttons for fast refrigeration, fast centrifugation, intelligent start-stop and lid-closing status:** Points to the bottom row of four large buttons.



**Product Parts**



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



Viewing port in the lid for observing the operating condition of the rotor



Drainage tray to prevent internal water accumulation and improve corrosion resistance



Triple-layer construction to ensure safe use



316 stainless steel centrifuge chamber is rust-free and easy to clean



USB port for exporting operation record including speed, time and temperature, operation curve with alarm messages etc.

**Specifications**

Model	Maximum Capacity (ml)	Max Speed (rpm)	Max RCF(xg)	Speed Accuracy	Time Setting Range	Precooling Function	Temperature Setting Range(°C)	Display
LX-165T2R	12*10ml	16500	25872	±10rpm	1s~99h59m59s (1-second increment)	Yes	-20~40, adjustable to 1	7 inch touch screen





Cooling	Noise Level dB(A)	Power Supply (V/Hz)	Power(W)	Exterior Dimensions (W*D*H)(mm)	Net Weight (kg)	Packing Dimensions (W*D*H)(mm)	Gross Weight(kg)	Certifications
Direct Cooling	≤46	AC220/50/60	480	340*625*248	34	425*795*430	48	CE

\*Haier Biomedical reserves the right to change products and specifications without prior notice.




**Fixed-angle Rotors**



BE No.	BE12C0Z00	BE11D0Z00	BE12D0Z00	BE12E0Z00	BE12DR000
Type	Plastic cover	Sealed	Sealed	Sealed	Sealed
Max Capacity (ml)	24*1.5/2ml	24*1.5/2ml	12*5ml	4*8*0.2ml	12*10ml
Max RCF (xg)	25872	21382	21407	18891	2753
Max Speed (rpm)	16500	15000	15000	15000	5000
Tubes per Rotor	24	24	12	4	12
Tube					
Max Tube Capacity (ml)	1.5/2ml	1.5/2ml	5ml	0.2 ml 8-strip PCR	10ml
Max Tube Dimensions (Ø x L mm)	11*38	11*38	13.5*75	6*18	15*105
Tube Type	Round /Conical bottom	Round /Conical bottom	Round bottom	PCR	Large blood collection tube

**Adapter(Sets of 50) for BE12DR000**

BE No.	BE12JC002
Max Capacity (ml)	5ml
Tube	
Max Tube Dimensions (Ø x L mm)	13*75
Tube Type	Small blood collection tube



\*Haier Biomedical also can provide 0.2ml adapter (sets of 24) (BE12J2003),0.5ml adapter (sets of 24) (BE12JN002) for 1.5/2ml tube rotor