

labodam



HIGH SPEED REFRIGERATED CENTRIFUGE

LD-LRF-E10

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LD-LRF-E10 is a microprocessor controlled high speed refrigerated centrifuge having 15000 rpm speed. It is safe, reliable, noiseless and smooth in operation. It is equipped with LCD display, brushless frequency motor, and auto electric magnetic locking system, lid can be closed with one figure touch. 9 steps Acceleration/ deceleration allows gentle braking at low speed for better separation. 3 layered sealed rotors ensures safe centrifugation and air tightness. Fluorine free refrigerant, low carbon and environmental protection.

Features

- Brushless frequency DC motor
- LCD display that indicates RCF/RPM, time, temperature of the operation
- Equipped with pre-cooling function, Short pre-cooling time of only 7 minutes from room temperature to 4°C and maximum rotation speed can be achieved even at 4 °C
- Acceleration/ deceleration in 9 steps, can store up to 9 programs according to experimental need
- Rotors made up of high strength aluminum alloy can be autoclavable at 121 °C
- Sound indicator at the end of running
- Rotor imbalance detection alarm
- Over speed and over temperature detection with integral diagnosis system
- Can be provided with rotors for 0.2 mL, 0.5 mL, 1.5 mL, 2 mL and 5 mL centrifuge tubes / PCR tubes
- An external condensation tank prevents condensate within the centrifuge chamber
- Rotation speed / RCF switchover, inching operation

Application

It can be used for the centrifugation of temperature sensitive samples, such as live cells, animals or proteins, pelleting of DNA and RNA samples, pelleting of PCR amplified nucleic acids, separation of antibody and protein precipitates, performing enzymatic tests, removing cell debris from cell homogenates, and achieving bacterial and yeast cell fractionation.

Specifications

Model No.	LD-LRF-E10
Max. Speed	15,000 rpm (200 -15,000 rpm) in 100 rpm increments
Max. RCF	21,380 × g with 10 g steps
Max. Capacity	18 x 5 ml
Speed Accuracy	± 10 rpm
Temp. Range	-20 °C - 40 °C
Timer Range	30 s - 99 min; HOLD or continuous running
Acceleration and deceleration time	25s↑ 25s↓
Noise	≤ 64 dB
Power Supply	AC 110 - 220 V / 50 - 60 Hz
Dimension (W x D x H)	332 × 553 × 283 mm
Weight	30 kg

Rotor Selection

Rotor Name	Max speed (rpm)	Max capacity (ml)	Max RCF (×g)
Angle rotor 01	15000	24 x 1.5/2 ml	21380×g
Angle rotor 02	15000	12 x 5 ml (Cone bottom)	21380×g
Angle rotor 03	15000	36 x 0.5 ml	21380×g
Angle rotor 04	15000	4 x 8 PCR/ 0.2 ml	21380×g
Angle rotor 05	15000	18 x 5 ml (Round bottom)	21380×g

Adapter Selection

Adapter Name	Capacity of adapter	Adapter for rotor	Adapter per pack
Adapter 01	0.2 ml	For Angle rotor 01	24 pcs/pk
Adapter 02	0.5 ml	For Angle rotor 01	24 pcs/pk
Adapter 03	0.2 ml	For Angle rotor 03	36 pcs/pk