

Refrigerated | High speed | Floorstanding



The LG-18 is a multipurpose floor standing high speed refrigerated centrifuge with intelligent LCD touch screen. Equipped with RFID rotor identification technology and three-axis gyroscope real-time monitoring technology. It can spin up to 18000rpm/31405xg, 15 rotors for choice to meet different centrifugal needs.

## FEATURES

### User-friendly functions

- > up to 1000 user-defined programs
- > up to 100000 run histories, can be exported via USB
- > up to 40 rates acceleration and deceleration, speed downs curvly slowly from 600rpm to 0rpm to prevent samples shake
- > up to 7 stages multi-stage centrifugation mode available
- > up to 99h59m59s timer range, 1s increment
- > Support short spin and continuous centrifugation
- > LCD touch screen for viewing and setting parameters

### Refrigeration

- > High quality compressor unit
- > -20°C to +40°C, 1°C increment
- > ±1°C high temperature accuracy
- > CFC-free refrigerant
- > PID dynamic temperature control
- > Temperature sensor inside the chamber
- > Starts refrigeration when power on
- > Maintains refrigeration after spin
- > With ECO energy-saving module

### Ensure safety

- > RFID automatic rotor identification
- > Imbalance detection by three axis gyroscope
- > Motorized electronic door lock
- > Door cannot be opened when rotor is spinning
- > Gas hinges to prevent door falling
- > Port in the door for calibration and operation checking
- > Emergency door lock release
- > Password to lock the device
- > Various protections to ensure safe centrifugation
- > With never be lost electronic instruction manual

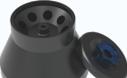
### Good components

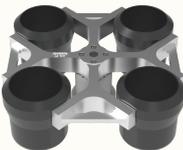
- > Motor: Brushless variable frequency motor. stable running, maintenance free, long life
- > Housing: Thick and strong steel
- > Chamber: 316 stainless steel. anticorrosion and easy to clean
- > Rotor: Aluminum alloy fixed angel rotor; Aluminum alloy/Stainless steel swing out rotor.
- > Rotors are autoclavable

## TECHNICAL DATA

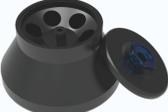
Max Speed	18000rpm
Max RCF	31405xg
Max Capacity	4x250ml
Temperature Range	-20°C ~ +40°C
Temperature Accuracy	±1°C
Speed Accuracy	±10rpm
Time Setting	1s~ 99h59m59s
Noise	≤60dB(A)
Voltage	220v/110v
Power Consumption	1800w
Dimension	680x620x840mm
Weight	134kg

# AVAILABLE ROTORS

Fixed angle rotor					
Rotor	Capacity	Order No.	Max speed/RCF	Adaptor	
				Capacity	Order No.
	12×1.5/2ml	0494020200	18000rpm/22675×g	12×1×0.2ml	1101010001
				12×1×0.5ml	1101010002
	24×1.5/2ml	0494020600	16000rpm/24814×g	24×1×0.2ml	1101010001
				24×1×0.5ml	1101010002
	24×1.5/2ml aerosol tight	0494020500	18000rpm/31405×g	24×1×0.2ml	1101010001
				24×1×0.5ml	1101010002
	12×5ml	0494030200	16000rpm/20807×g	12×1×1.8ml frozen storage tube	1101020002
				12×1×2ml frozen storage tube	1101020004
				12×1×2ml	1101020001
	6×10ml	0494040100	16000rpm/19004×g	6×1×2ml	1101030001
				6×1×5ml	1101030002
	12×10ml	0494040200	15000rpm/20803×g	12×1×2ml	1101030001
				12×1×5ml	1101030002
	8×15ml conical tube	0494050100	14000rpm/17333×g	8×1×5ml	1101040001
				8×1×10ml	1101040002
	12×15ml conical tube	0494050200	12000rpm/15906×g	12×1×5ml	1101040001
				12×1×10ml	1101040002

Swing out rotor					
Rotor	Capacity	Order No.	Max speed/RCF	Adaptor	
				Capacity	Order No.
	Capacity: 2×3×96 well (micro plate)	0495010300	4000rpm/2003×g	2×24×1.5/2ml	1102040001
	Capacity: 4×250ml	0495040200	45000rpm/3735×g	4×8×2ml	1102050001
				4×8×2ml frozen storage tube	1102050015
				4×8×5ml	1102050010
				4×5×5ml conical tube	1102050002
				4×10×7ml blood tube	1102050013
				4×9×10ml	1102050014
				4×5×15ml conical tube	1102050003
				4×2×30ml glass tube	1102050012
				4×2×50ml	1102050004/conical tube 1102050005/round tube
				4×1×100ml	1102050006

## AVAILABLE ROTORS

Fixed angle rotor					
Rotor	Capacity	Order No.	Max speed/RCF	Adaptor	
				Capacity	Order No.
	6×50ml round tube	0494070100	13000rpm/18440×g	6×1×2ml	1101060003
				6×1×5ml	1101060004
				6×1×10ml	1101060001
				6×1×15ml conical tube	1101060005
				6×1×30ml	1101060002
	6×50ml conical tube	0494070200	13000rpm/18440×g	6×1×2ml	1101070003
				6×1×5ml	1101070004/conical tube 1101070005/round tube
				6×1×7ml	1101070012
				6×1×10ml	1101070006/glass tube 1101070007/conical tube 1101070008/round tube
				6×1×15ml	1101070001/conical tube
				6×1×25ml	1101070010
				6×1×50ml round tube	1101070002
	8×50ml round tube	0494070400	10000rpm/11045×g	8×1×2ml	1101060003
				8×1×5ml	1101060004
				8×1×10ml	1101060001
				8×1×15ml conical tube	1101060005
				8×1×30ml	1101060002
	4×100ml	0494080100	10000rpm/11045×g	4×1×5ml	1101080007
				4×1×10ml	1101080001
				4×1×15ml conical tube	1101080002
				4×1×30ml	1101080003
				4×1×50ml	1101080005/conical tube 1101080004/round tube
	12×50ml conical tube	0494070700	10000rpm/14310×g	12×1×2ml	1101070003
				12×1×5ml	1101070004/conical tube 1101070005/round tube
				12×1×7ml	1101070012
				12×1×10ml	1101070006/glass tube 1101070007/conical tube 1101070008/round tube
				12×1×15ml	1101070001/conical tube
				12×1×25ml	1101070010
				12×1×50ml round tube	1101070002