



## Benchtop High Speed Refrigerated Centrifuge



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**Darsun**Scientific



# Darsun Scientific

## Benchtop High Speed Refrigerated Centrifuge

### DS-200R



### Product Overview

The combination of high speed and refrigeration capabilities ensures precise temperature control during centrifugation, preserving sample integrity and allowing for sensitive experiments and analyses.

They are essential for separating substances of different densities in biological and chemical samples, such as DNA, proteins, and cells. These centrifuges are particularly valuable in fields like molecular biology, biochemistry, and clinical diagnostics, enabling researchers to isolate and purify target components efficiently.

### Product Features

1. Intelligent microprocessor control system that can display set and actual parameters simultaneously.
2. Frequency conversion A.C. motor drive, maintenance-free.
3. 304# Stainless steel centrifuging chamber.
4. Housing and lid of metal finished in a scratch and impact resistant coating.
5. Aluminium alloy fixed angle rotor, stainless steel swing out rotor.
6. Rotors and buckets are autoclavable and corrosion-free.
7. Durable chassis with steel armored chamber and steel layered lid.
8. Smooth tube insertion and removal facilitated by precisely carved holes in rotors and buckets.
9. User friendly
10. LCD/TFT display panel for optional, and highly visible display screen.
11. CFC-free refrigerant.
12. RTC (Real-Time Control) Function
13. PID dynamic temperature control.
14. Temperature range from -20°C to 40°C in 1°C steps.
15. Reversible parameters during operation
16. Up to 30 program memory and easily retrieved.
17. Last set parameters recall (useful for repetitive analysis)
18. Adjustable Accel/Decel, 10 acceleration and 10 deceleration ramps.
19. Automatic lid-locking and holding during rotor run.
20. Viewing port in the lid for speed calibration and noise measurement.
21. Automatic RFID rotor identification with over-speed protection.
22. Active imbalance detection and shutdown.
23. Safety lid interlock to prevent lid opening during centrifugation
24. Lid drop protected construction and fine control of lid opening.
25. Emergency door lock release enables opening in case of power failure or sudden stoppages.
26. Safety and Standards Certification: CE
27. Product Safety: EN61010-1 and EN 61010-2-020 Electromagnetic Compatibility: EN 61326-1.

MODEL NO	DS-200R
Speed range(rpm)	0-20000rpm adjustable
Max Capacity(ml)	4*750ml
RCF range (xg)	0-28174xg adjustable
Temperature control range	-20°C~+40°C
Noise(dBA)	≤58dB(A)
Refrigerant	R404A
Dimension(mm)	680x580x420mm(LxWxH)
Time range	1-99minutes 59s adjustable
Speed accuracy	±10r/min
ACC/DEC	1-10 rates
Temperature control accuracy	±1°C
Net weight(without rotor)	110KGS
Power supply	AC220V,50HZ,10A, 1300W

No.	Item	Max. capacity	Max.speed	Max.RCF	Note
NO.1 	Angle rotor	12x1.5/2.2ml	20000r/min	28174xg	PP/PC tube
	Adapter 	12x0.5ml			
		12x0.2ml			
NO.2 	Angle rotor	12x5ml	17000r/min	20680xg	PP/PC tube
	Adapter 	12x1.5ml			PP/PC tube
NO.3 	Angle rotor	24x1.5/2.2ml	16000r/min	24041xg	PP/PC tube
	Adapter 	24x0.5ml			
		24x0.2ml			
NO.4 	Angle rotor	10x15ml	15000r/min	26161xg	PP/PC tube
	Adapter 	10x10ml			
		10x5ml			
	Adapter 	10x1.5ml			
NO.5 	Angle rotor	48x1.5/2.2ml	15000r/min	23394xg	PP/PC tube
	Adapter 	48x0.5ml			
		48x0.2ml			

NO.6 	Angle rotor	12×10ml	15000r/min	21130xg	PP/PC tube
	Adapter 	12×5ml			
		12x1.5ml			
NO.7 	Angle rotor	6×50ml	14000r/min	21255xg	PP/PC tube
	Adapter 	6×15ml			
		6×10ml			
	Adapter 	6×1.5ml			
NO.8 	Angle rotor	6×100ml	11000r/min	14610xg	PP/PC tube
	Adapter 	6×50ml			
		6×15ml			
		6×10ml			
		6×5ml			
		6×1.5ml			
NO.9 	Angle rotor	8×50ml	12000r/min	17226xg	PP/PC tube
	Adapter 	8×15ml			
		8×10ml			
	Adapter 	8×1.5ml			
NO.10 	Swing bucket	4×250ml	4000r/min	3049xg	Round cup
	Adapter 	4×9x5/2ml			PP/PC tube
		4×5x15/10ml			
		4×50ml			
	Adapter 	4×100ml			
4×9x1.5ml					
NO.11 	Swing bucket	4×400ml	4000r/min	3049xg	Square cup
	Adapter 	4×16x5/2ml			PP/PC tube
		4×9x15/10ml			
		4×4x50ml			
		4×100ml			

NO.12 	Swing bucket	4×500ml	4000r/min	3354xg	Round cup
	Adapter 	4×17x5/2ml			PP/PC tube
		4×8x15/10ml			
		4×3x50ml			
		4×100ml			
NO.13 	Swing bucket	4×600ml	4000r/min	3354xg	Square cup
	Adapter 	4×25x5/2ml			PP/PC tube
		4×12x15/10ml			
		4×5x50ml			
		4×4x100ml			
NO.14 	Swing bucket	4×750ml	4000r/min	3443xg	Round cup
	Adapter 	4×26x5/2ml			PP/PC tube
		4×13x15/10ml			
		4×5x50ml			
		4×3x100ml			
NO.15 	Microplate rotor	2×2×96hole	4200r/min	2860xg	Square cup
	Adapter 	2×32×1.5ml			PP/PC tube