



## Benchtop High Speed Refrigerated Centrifuge

---



**Darsun Scientific Inc, USA**  
30 N Gould St, Ste R Sheridan, Wyoming  
82801, United States

**Email:** [Info@darsunscientificinc.com](mailto:Info@darsunscientificinc.com)  
**Phone:** +1-3074272810  
**Web:** [www.darsunscientificinc.com](http://www.darsunscientificinc.com)



# 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℃~+40℃                  |
| 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℃                        |
| 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 | 48×1.5/2.2ml  | 15000r/min | 23394xg | PP/PC tube |
|      | Adapter     | 48x0.5ml      |            |         |            |
|      |             | 48x0.2ml      |            |         |            |

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

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



Darsun Scientific Inc, USA  
30 N Gould St, Ste R Sheridan, Wyoming  
82801,United States

Email: Info@darsunscientificinc.com  
Phone: +1-3074272810  
Web: www.darsunscientificinc.com