

The Thermo Scientific Sorvall Legend 23R combines versatility, performance and affordability in a high-speed, high-capacity refrigerated microcentrifuge. Compact, quiet and easy to program, the Sorvall Legend 23R is perfect for DNA and RNA molecular biology applications, as well as clinical and forensic labs.

Thermo Scientific Sorvall Legend 23R

High-capacity, high-performance refrigerated microcentrifuge



The Sorvall Legend 23R offers a range of certified biocontained accessories that ensure safe sample handling. An intuitive display panel makes operation simple and straightforward.



Expand your capacity with the Thermo Scientific Fiberlite carbon fiber 48-place, high-capacity microtube rotor.



High Capacity, High Performance

The Thermo Scientific Sorvall Legend 23R is an ideal refrigerated microcentrifuge for researchers who need high RCFs to process their microliter sample volumes. With its 48-place rotor and g-forces of up to 30,000 x g, the Sorvall® Legend® 23R accelerates your sample separations for maximum productivity.

Versatile

Supporting a variety of tube sizes ranging from 0.2 mL up to 200 mL, the Sorvall Legend 23R accommodates the sample formats required in microbiology, molecular biology, genetics and biochemistry. A range of CAMR-approved biocontained accessories ensure safe sample handling.

Unique AUTO-LOCK Rotor Exchange

Changing rotors is fast and easy with the patented Thermo Scientific AUTO-LOCK rotor exchange. You can exchange rotors in

seconds with flexibility and convenience. For example, you can rapidly change from the 48-place microtube rotor to the 2-place sealed microplate rotor.

Quiet and Easy to Use

The quiet induction motor minimizes noise. The interactive Thermo Scientific VIDEOset controller provides a graphic display of all parameters for quick and easy programming: speed, RCF, time, temperature, rotor, integral, acceleration and braking rates, plus a real time graph of the run.

Sample Protection

The powerful refrigeration system ensures samples are maintained at 4°C even at maximum speed⁽¹⁾. This precise temperature control ensures sample integrity and higher quality separations for better results.

(1) When using aluminum rotors

Thermo Scientific Sorvall Legend 23R Centrifuge

Specifications			
Cat. No.	120V, 60Hz	00554	
	230V, 50/60Hz	11174736	
Max Speed	Swing-out	4,400 rpm	Angle: 23,000 rpm
Max RCF	Swing-out	3,074 x g	Angle: 36,668 x g
Max Capacity	Swing-out	4 x 200 mL	Angle: 6 x 100 mL
Temp range	-8°C to +40°C		
Dimensions (H x W x D)	14.7 x 23.03 x 25 in		
Dimensions (H x W x D)	crated 22.44 x 28.35 x 31.10 in		
Weight (net/gross)	187.4 lbs / 220.5 lbs		

Thermo Scientific Sorvall Legend 23R Rotor Systems

Fixed Angle Rotors

Description	Tube Dimensions Ø x L (mm)	Cat. No.
AM 100.13 Angle Rotor		
6 x 100 mL, 13,000 rpm, 18,516 x g, 28°	38.5 x 101	00471
Adapters (set of 6):		
50 mL	29 x 103	00484
50 mL con	30 x 116	00485
30 mL Corex	24 x 106	00535
25 mL Corex	24 x 104	00536
15 mL Corex/ Oakridge, Oakridge	18 x 106	00552
30-38 mL	25.5 x 92	00486
15 mL con	17 x 106	00487
2 x 10 mL	16 x 80	00488
4 x 1.5-2 mL	11 x 39	00489
AM 50.14 Angle Rotor		
8 x 50 mL, 14,000 rpm, 21,255 x g, 28°	29.5 x 104	00470
Adapters:		
30 mL Corex or 24 mL Corex (2)	24 x 106	00583
15 mL Corex (2)	18 x 102	00562
Adapters:		
30 / 38 mL (8)	25 x 92	00194
15 mL con (8)	17 x 122	00199
13 mL (8)	17 x 104	00584
12 mL (8)	17 x 103	00331
10 mL (8)	16 x 80	00195
AM 50C.13 Angle Rotor		
6 x 50 mL conical, 13,000 rpm, 21,160 x g, 40°	29.8 x 118	00555
Adapters (set of 4):		
15 mL con	17 x 122	00200
10 mL	16 x 80	00557
AM 38.15 Sealable Angle Rotor*		
8 x 38 mL, 15,300 rpm, 23,292 x g, 30°	25.5 x 92	00469
Adapters (set of 8):		
16 mL	18 x 100	00203
13 mL	17 x 85	00196
10 mL	16 x 80	00197
5 mL	12.5 x 75	00202

Drum Rotor

Description	Tube Ø (mm)	Cat. No.
DRM 6.14 Drum Rotor		
6 racks, 14,300 rpm, 16,461 x g, 90°		00333
Racks:		
10 x 1.5 / 2 mL	11	00150
20 x 0.5 / 0.8 mL	8	00154
20 x 0.7 mL	6	00155
21 x 0.6 mL	6	00153
32 x 0.25 / 0.4 mL	6	00151

Microtube Rotors

Description	Tube Dimensions Ø x L (mm)	Cat. No.
48 place Sealed Fiberlite® Angle Rotor		
48 x 1.5 mL, 15,000 rpm, 24,400 x g, 45°	11 x 39	00558
Adapters:		
0.5 / 0.8 mL	8 x 39	00559
0.5 mL	6 x 39	00560
AM 2.19 Sealable Angle Rotor*		
28 x 1.5 - 2 mL, 19,200 rpm, 30,086 x g, 45°	11 x 39	00467
AM 2.18 Sealed Angle Rotor**		
24 x 1.5 - 2 mL, 18,750 rpm, 33,015 x g, 45°	11 x 39	00553
AM 2.21 Sealed Angle Rotor**		
12 x 1.5 - 2 mL, 21,500 rpm, 32,041 x g, 45°	11 x 39	00466
AM 2.23 Angle Rotor**		
12 x 1.5 - 2 mL, 23,000 rpm, 36,668 x g, 45°	11 x 39	00334
Adapters for 2.19, 2.18, 2.21 and 2.23 (set of 20):		
0.5 / 0.8 mL	8 x 39	00559
0.2 mL PCR	6.5 x 39	00332
0.25 / 0.5 mL	6 x 39	00560
AM 10.17 Sealable Angle Rotor*		
10 x 10 mL, 16,600 rpm, 26,186 x g, 40°	16.3 x 80	00468
Adapters (set of 10):		
6 mL	13 x 80	00201
1.5 / 2 mL	11 x 39	00198

Swing-out Rotors

Description	Tube Dimensions Ø x L (mm)	Cat. No.
4SWM 180.5 Swing-Out Rotor		
4 x 200 mL, 4,400 rpm, 3,073 x g, 90°	57 (Ø)	00472
Standard buckets (4)	57 (Ø)	00531
Sealed buckets (4)	57 (Ø)	00532
Spare sealing lid		00556
Lid seal		00533
Sealed carriers, 50 mL conical (4)	30 x 116	00136
Sealed carriers, 15 mL conical (4)	17 x 122	00135
200 mL PP bottles with caps (6)		00561
Adapters (set of 4):		
15 mL conical	17 x 122	00200
10 mL	16 x 105	00557
MTM 6.4 Swing-Out Rotor		
6 x microplates / 2 x deepwell blocks 4,500 rpm, 2,604 x g, 90°		00483
Rubber cushion for flexible microplate (1)	00134	

* Sealing lid not sold with AM10.17, AM10.19 and AM38.15. Purchase sealing lid Cat No. 00533 if required
 ** Rotors AM2.18 and AM2.21 are sold with lid.

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