

The Thermo Scientific MR23i centrifuge combines versatility, performance and affordability in a high-speed, high-capacity refrigerated multifunction centrifuge. Compact, quiet and easy to program, the MR23i centrifuge is perfect for DNA and RNA molecular biology applications, as well as clinical and forensic labs.

Thermo Scientific MR23i Centrifuge

High-capacity, high-performance refrigerated multifunction centrifuge



The MR23i centrifuge 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 MR23i refrigerated multifunction centrifuge is ideal for researchers who need high RCFs to process a wide range of sample volumes. With its 48-place rotor and g-forces of up to 30,000 x g, the MR23i centrifuge accelerates your sample separations for maximum productivity.

Versatile

A wide range of tube sizes are supported – from 0.2 ml up to 200 ml – to easily accommodate the different sample formats required in microbiology, molecular biology, genetics and biochemistry. CAMR-approved* biocontained accessories ensure safe sample handling.

Unique AUTO-LOCK Rotor Exchange

Changing rotors is fast and convenient with the patented Thermo Scientific AUTO-LOCK rotor exchange. Change your application in seconds from a 48-place microtube rotor to the 2-place sealed microplate rotor with flexibility and ease.

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

*CAMR is now incorporated within the UK Health Protection Agency (HPA).

Thermo Scientific MR23i Rotors and Accessories

Description	Rotor Capacity (ml)	Max Tube Dimensions (mm)	Max Speed (rpm)	Max RCF (x g)	Cat. No.
SWM 180.5 Swinging Bucket Rotor, 90°, R_{max} 142mm	4 x 200 ml	57 (Ø)	4,400	3,074	11174711
Standard Buckets (4)		57 (Ø)			11174720
Sealed Buckets (4)		57 (Ø)			11174721
Spare Sealing Lid					25241177
Lid Seal					26436809
Sealed Carriers, 50 ml Conical (4)	4 x 50	30 x 116		3,074	11174210
Sealed Carriers, 15 ml Conical (4)	4 x 15	17 x 122		3,074	11174209
200 ml PP Bottles with Caps (6)	4 x 200	56 x 112		3,074	41193271
Adapters (set of 4):					
100 ml Round Bottom Tube	4 x 100	45 (Ø)		3,074	11174181
50 ml Round Bottom Tube	4 x 50	32.5 (Ø)		3,074	11174501
50 ml Conical or Skirted (no sealing)	4 x 50	30 x 116		3,074	11174528
25 ml Universal Tube	4 x 25	30 x 116		3,074	11174526
20 ml Round Bottom Tube	12 x 20	22 (Ø)		3,074	11174502
15 ml Conical Tube	4 x 15	17 x 122		3,074	11174723
15 ml Round Bottom Tube	28 x 15	17 (Ø)		3,074	11174183
12 ml Round Bottom Tube	12 x 12	17.5 (Ø)		3,074	11174509
10 ml Round Bottom Tube	20 x 10	16 x 105		3,074	11174503
5/ 7 ml Round Bottom Tube	20 x 5	13 (Ø)		3,074	11174504
3/ 5 ml Round Bottom Tube	48 x 3-5	12 (Ø)		3,074	11174506
2.0/ 1.5 ml Microtubes	24 x 1.5 - 2	11 x 39		3,074	11174508
MTM 6.4 Swinging Bucket Rotor, 90°, R_{max} 115mm	6 x microplates/ 2 x deepwell blocks		4,500	2,604	11174712
Rubber Cushion for Flexible Microplate (1)					11174207
AM 100.13 Angle Rotor, 28°, R_{max} 98mm	6 x 100 ml	38 x 101	13,000	18,516	11174710
Adapters (set of 6):					
50 ml Round Bottom Tube	6 x 50	29 x 103		17,572	11174713
50 ml Conical Tube	6 x 50	30 x 116		17,572	11174714
30 ml Glass Round Bottom Tube	6 x 30	24 x 106		17,572	11174724
25 ml Glass Round Bottom Tube	6 x 25	24 x 104		17,572	11174725
15 ml Glass Round Bottom Tube	6 x 15	18 x 106		17,383	11174726
30-38 ml Round Bottom Tube	6 x 38	25.5 x 92		16,627	11174715
15 ml Conical Tube	6 x 15	17 x 106		17,572	11174716
10 ml Round Bottom Tube	12 x 10	16 x 80		15,682	11174717
1.5/ 2.0 ml Conical Microtube	24 x 2	11 x 39		14,926	11174718
AM 50.14 Angle Rotor, 28°, R_{max} 97mm	8 x 50 ml	29 x 104	14,000	21,255	11174709
Adapters (set of 8 unless otherwise noted)					
30 ml Glass Round Bottom Tube (Set of 2)	8 x 30	24 x 106		20,379	11210244
30-38 ml Round Bottom Tube	8 x 38	25 x 92		19,283	11174599
15 ml Glass Round Bottom Tube (Set of 2)	8 x 15	18 x 102		19,941	11210245
15 ml Conical Tube	8 x 15	17 x 122		19,941	11174604
13 ml Round Bottom Tube	8 x 13	17 x 104		18,845	85240287
12 ml Round Bottom Tube	8 x 12	17 x 103		20,160	11174612
10 ml Round Bottom Tube	8 x 10	16 x 80		18,188	11174600



Thermo Scientific MR23i Rotors and Accessories

Description	Rotor Capacity (ml)	Max Tube Dimensions (mm)	Max Speed (rpm)	Max RCF (x g)	Cat. No.
AM 50C.13 Angle Rotor, 40°, R_{max} 112mm	6 x 50 ml conical	29.8 x 118	13,000	21,160	11174732
Adapters (set of 4):					
15 ml Conical Tube	6 x 15	17 x 122		21,160	11174606
10 ml Round Bottom Tube	6 x 10	16 x 80		17,194	11177378
AM 38.15 Sealable Angle Rotor*, 30°, R_{max} 89mm	8 x 38	25.5 x 92	15300	23,292	11174708
Optional Transparent Sealing Lid					11174722
Adapters (set of 8):					
13 ml Round Bottom Tube	8 x 13	17 x 85		21,984	11174601
10 ml Round Bottom Tube	8 x 10	16 x 80		20,937	11174602
5 ml Round Bottom Tube	8 x 5	12.5 x 75		19,367	11174610
DRM 6.14 Drum Rotor, 90°, R_{max} 72mm	6 racks		14,300	16,461	11174703
1.5/ 2.0 ml Conical Microtube	60 x 1.5/ 2.0	11			11174561
0.5/ 0.8 ml Conical Microtube	80 x 0.5/ 0.8	8			11174573
0.7 ml Conical Microtube	80 x 0.7	6			11174574
0.25/ 0.4 ml Conical Microtube	192 x 0.25/ 0.4	6			11174562
Microtube Rotors					
48 place Sealed Fiberlite Angle Rotor, 45°	48 x 1.5 ml	11 x 39	15,000	24,400	11177523
Adapters:					
0.5/ 0.8 ml		8 x 39			41174928
0.5 ml		6 x 39			41174938
AM 2.19 Sealable Angle Rotor*, 45°, R_{max} 73mm	28 x 1.5 - 2 ml	11 x 39	19,200	30,086	11174706
AM 2.18 Sealed Angle Rotor**, 45°, R_{max} 84mm	24 x 1.5 - 2 ml	11 x 39	18,750	33,015	11174728
AM 2.21 Sealed Angle Rotor**, 45°, R_{max} 62mm	12 x 1.5 - 2 ml	11 x 39	21,500	32,041	11174705
AM 2.23 Unsealed Angle Rotor, 45°, R_{max} 62mm	12 x 1.5 - 2 ml	11 x 39	23,000	36,668	11174704
Optional Transparent Sealing Lid for 2.19, 2.18, or 2.21 rotors					11174722
Adapters for 2.19, 2.18, 2.21 and 2.23 (set of 20):					
0.5/ 0.8 ml		8 x 39			41174928
0.2 ml PCR		6.5 x 39			11174631
0.25/ 0.5 ml		6 x 39			41174938
AM 10.17 Sealable Angle Rotor*, 40°, R_{max} 85mm	10 x 10 ml	16 x 80	16,600	26,186	11174707
Optional Transparent Sealing Lid					11174722
Adapters (set of 10):					
6 ml Round Bottom Tube	10 x 6	13 x 100		24,646	11174607
1.5/ 2.0 ml Conical Microtube	10 x 1.5/ 2.0	11 x 39		19,717	11174603

* Sealing lid not sold with AM10.17, AM2.19 and AM38.15.
Purchase sealing lid Cat No. 11174722 if required

** Rotors AM2.18 and AM2.21 are sold with lid.





Thermo Scientific MR23i Centrifuge

Description

Max Speed (rpm)	
Swinging Bucket	4,400
Fixed Angle	23,000
Max RCF (x g)	
Swinging Bucket	3,074
Fixed Angle	36,668
Max Capacity	
Swinging Bucket	4 x 200
Fixed Angle	6 x 100
Controller	
Microprocessor	
Display	
VIDEOset® software on graphic screen 240 x 128 pixels	
Memory	
32 Programs	
Program Protection	
Individual Password	
Speed	
Range	500 to 23,000 rpm
Step	10 rpm
Accuracy	±10 rpm (low speed) ±20 rpm (high speed)
Integrator	
Range	100 to 281 x 10 ¹² m. rd ² .s
Step	1 m. rd ² .s
Accuracy	±1 m. rd ² .s
Timer	
Range	0 to 99h 59 min+ position continue
Step	1 min
Accuracy	less than 1%
RCF	
Range	20 to 36,668 x g
Step	1 x g at low speed, 3 x g at max. speed
Accuracy	±1 x g at low speed, ± 3 x g max. speed
Acceleration/ Braking	
10/ 10 Rates	
Temperature	
Range	-8°C to 40°C
Step	1°C
Typical Temperature Performance	
-5°C at 4,400 rpm, 3,074 x g (4 x 200 ml swinging bucket) 20°C ambient	
Dimensions (H x W x D)	
360 x 585 x 635 mm	
Packed	
570 x 720 x 790 mm	
Weight (net/ packed)	
85 kg/ 100 lb	
Max Power (watts)	
1300VA	
Instant Rotor Exchange System	
AUTO-LOCK®	

Ordering Information

Description	Cat. No.
MR23i, 230V/ 50Hz	11174729
MR23i, 120V/ 60HZ	11174730
MR23i, 230V/ 60HZ	11174731

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