

**Thermo Scientific
Heraeus® Megafuge® 11
Centrifuge Series**



**Outstanding Capacity, Convenience
and Value for Routine Applications**

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Thermo Scientific Heraeus Megafuge 11 Centrifuge Series



Capacity, Convenience and Value for Routine Applications

Introducing the Heraeus Megafuge 11 Centrifuge Series – a new Thermo Scientific centrifuge offering unsurpassed convenience and exceptional versatility for routine applications. With its quiet performance and compact footprint, the Thermo Scientific Heraeus Megafuge 11 Centrifuge Series is the ideal choice for high-capacity, high-throughput processing in the clinical lab.

Exceptional Capacity

The Heraeus Megafuge 11 Series provides high capacity in a compact footprint, so you can process large numbers of samples without giving up precious bench space.

- Process 60 x 5/7 ml BD Vacutainer or 16 x 50 ml conical tubes with the versatile T41 swing-out rotor.
- Process 28 x 5/7 ml BD Vacutainer or 4 x 50 ml conical tubes in sealed conditions with the S41 rotor.
- The AC15.4 fixed-angle rotor accommodates 30 x 15 ml tubes.
- The T20 microplate rotor spins 2 x 3 microplates in sealed buckets.

- The FIBERLite® 48 x 2 ml micro-tube rotor enables high-speed microvolume centrifugation at > 23,000 x g.

Convenient Operation

- The patented AUTO-LOCK rotor exchange system on the Heraeus Megafuge 11 Series lets you swap rotors in seconds. You can change protocols quickly and perform daily cleaning tasks with ease.
- The user-friendly control panel gives you one-touch access to frequently-used programs.

Proven Reliability

- The Heraeus Megafuge 11 Series' brushless induction motor provides years of service with minimal maintenance.
- Whisper-quiet operation eliminates distractions.

Proven Safety

- The Heraeus Megafuge 11 Series supports a protected laboratory environment with a full set of sealed accessories, tested by CAMR* in Porton Down, UK, the gold standard in biological safety testing.

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



Quick Recall Keys

provide single keystroke access to frequently used programs.

G-Force Control

allows protocol transfer from other centrifuges without cross-reference to RPM.

Bright LED Displays

for easy, at-a-glance monitoring of set and run conditions across the lab.

Pre-Cooling Function

on the refrigerated Megafuge 11R for rotor and chamber preparation.

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1. Snap in your swing-out rotor and lock it in place.



2. Instantly unfasten and remove it.



3. Snap in your microplate rotor, and you're ready to spin again – in less than 5 seconds!

Maximum Safety and Greater Convenience with AUTO-LOCK®

Our patented AUTO-LOCK rotor locking system makes routine processing safer, faster and easier:

- **Worry-free spins** – AUTO-LOCK ensures that your rotor is properly locked in place with minimum effort

- **Fast protocol changes** – You can swap rotors in seconds, without having to remove or tighten lug nuts
- **Easy cleaning** – AUTO-LOCK makes routine cleaning straightforward



Adapters and accessories are available for all commonly used sample tubes and vessels. Bucket sealing lids provide certified protection against aerosols, bacteria and viruses.



High Capacity, Advanced Technology

The Heraeus Megafuge 11 Centrifuge Series offers a high-throughput, 48 x 2 ml carbon fiber rotor. This advanced material is easier to manage and offers a safer alternative to conventional metallic rotors, which can crack with age. Capable of supporting higher capacities and higher G-forces, the 48-place carbon fiber rotor also provides a high level of chemical resistance against corrosive agents, making it a truly cost effective investment for your lab.

With its generous sample capacity and wide selection of rotors, the Heraeus Megafuge 11 Centrifuge Series is perfect for routine processing applications in the clinical lab.

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Rotors and Accessories

T41 High-Capacity Swing-Out Rotor



T41 High-Capacity Swing-Out Rotor (11210435)
280 ml standard bucket (11210436) with sealing lid (11175712) and variety of inserts to meet your specific application requirements

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
T41 Swing-Out Rotor, 4 X 280 ml						11210435
Standard buckets, 280 ml (set of 4)		77	164	4100	3082	11210436
Buckets, 4 X 50 ml conical (set of 4)	16	33	169	4100	3176	11175752
Buckets, 3 X 50 ml conical skirted (set of 4)	12	33	169	4100	3176	11175759
Buckets, 15 X 5/7 ml BD Vacutainer® (set of 4)	60	13.5	165	4100	3101	11175763
Sealing lids for 11210436 (set of 4)						11175712
Adapters for T41 Swing-Out Rotor (set of 4)						
1 X 280 ml round	4	64	161	4100	3026	11175713
1 X 250 ml flat	4	61	161	4100	3026	11175714
1 X 200 ml flat	4	55	156	4100	2932	11175715
1 X 175 ml conical	4	60	166	4100	3120	11175716
1 X 100 ml	4	38	161	4100	3026	11175719
2 X 65 ml round	8	34	156	4100	2932	11175720
4 X 50 ml round	16	28.5	132	4100	2481	11175721
1 X 50 ml conical skirted	4	29	163	4100	3063	85540175
2 X 50 ml conical	8	29	134	4100	2518	11175722
3 X 50 ml conical*	12	29	134	4100	2518	11210348
1 X Centriprep®	4	28	160	4100	3007	11175742
5 X 30 ml round	20	25.5	157	4100	2951	11175723
3 x 25 ml universal	12	26	153	4100	2875	11204125
5 X 25 ml	20	24	155	4100	2913	11175724
4 X 25 ml Corex®	16	24	155	4100	2913	11175725
9 X 16 ml round	36	18	160	4100	3007	11175726
12 X 10 ml BD Vacutainer	48	17	160	4100	3007	11175727
4 X 15 ml BD Vacutainer *	16	16	163	4100	3063	11175738
7 X 15 ml urine	28	17	161	4100	3026	11175729
4 X 15 ml conical	16	17	163	4100	3063	11175730
5 X 15 ml conical *	20	17	163	4100	3063	11175731
4 X 14 ml Corning® round	16	15.5	163	4100	3063	11175747
12 X 13 ml	48	16	160	4100	3007	11175732
9 X 10 ml	36	16	160	4100	3007	11175728
19 X 8 ml	76	12	161	4100	3026	11175733
12 X 5/7 ml BD Vacutainer	48	12.5	160	4100	3007	11175740
19 X 5 ml RIA	76	13	161	4100	3026	11175734
19 X 3 ml RIA	76	11	161	4100	3026	11175735
13 X 2 ml	52	10	159	4100	2988	11175736

* In open buckets only.

S41 Swing-Out Rotor



S41 Swing-Out Rotor (11210246)
200 ml standard bucket (11175611) with sealing lid (11175612) and adapters for variety of applications

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
S41 Swing-Out Rotor, 4 X 200 ml						11210246
Standard buckets, 200 ml (set of 4)		57	161	4100	3026	11175611
Sealing lids for 11175611 (set of 4)						11175612
Adapters for S41 Swing-Out Rotor (set of 4)						
200 ml PP bottle p/n 41193271	4	56.5	161	4100	3026	directly
1 X 100 ml	4	45	159	4100	2990	11174181
1 X 50 ml round	4	35	158	4100	2970	11174501
1 X 50 ml conical	4	29	159	4100	2990	11174528
1 X 25 ml universal flat/skirt	4	25	158	4100	2970	11174527
3 X 20 ml	12	22	159	4100	2990	11174502
3 X 15 ml conical	12	17.5	156	4100	2930	11174537
7 X 15 ml Nalgene®	28	17	156	4100	2930	11174183
3 x 15 ml urine	12	17	159	4100	2990	11210419
3 x 15 ml BD Vacutainer	12	17.5	159	4100	2990	11210523
3 X 12 ml Greiner flat	12	17.5	159	4100	2990	11174509
5 X 10 ml BD Vacutainer	20	16	159	4100	2990	11174503
5 X 5/10 ml flat	20	17	159	4100	2990	11174534
7 X 5/7 ml BD Vacutainer	28	13	159	4100	2990	11210604
9 X 5 ml BD Vacutainer	36	13.5	159	4100	2990	11174505
5 X 5 ml flat	20	17	159	4100	2990	11174533
12 X 3-5 ml	48	12	158	4100	2970	11174506
6 X 2 ml	24	11	158	4100	2970	11174508



Indicates that the centrifuge accessory has been successfully tested for biological containment by C.A.M.R. (HPA) Porton Down, UK.



T20 Microplate Rotor

Description	Rotor Capacity	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
T20 Microplate Rotor	2 x 3 Microplates / 2 x 1 DeepWell	115	4100	2160	11175750
Sealed plate carriers (set of 2)	2 x 3 Microplates / 2 x 1 DeepWell				11175631
Rubber cushion for microplates					11174207
Flask adapters (set of 2)	2 x 1 T-25 or T-75 Falcon® type flasks				11210762

AC15.4 Fixed-Angle Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
AC15.4 Fixed-Angle Rotor 37°	30 x 15 ml	17.5	135	4100	2537	11175755
Adapters (each)						
1 x 10/15 ml	30		135	4100	2537	direct
1 X 13.5 ml	30		130	4100	2440	11203666
1 X 8/7 ml BD Vacutainer	30		130	4100	2440	11172596
1 X 5 ml Hemogard®	30		116	4100	2180	11172595
1 X 5 ml	30		116	4100	2180	11172402
1 X 3 ml	30		112	4100	2100	11172287
1 X 2/1.5 ml	30		105	4100	1970	11172288

AC100.10A Fixed-Angle Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
AC100.10A Fixed-Angle Rotor 25°	6 x 100 ml	38	99	10000	11066	11210437
Adapters (set of 6)						
1 X 50 ml round	6	29	93	10000	10397	11174713
1 X 50 ml conical	6	30	93	10000	10397	11174714
1 X 38 ml round	6	25.5	88	10000	9838	11174715
1 X 15 ml conical	6	17	93	10000	10397	11174716
2 X 10 ml round	12	16	83	10000	9279	11174717

AC50.10 Fixed-Angle Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
AC50.10 Fixed-Angle Rotor 40°	6 x 50 ml con	29.5	112	10000	12520	11175754
Adapters						
1 X 50 ml conical (each)	6	30	112	10000	12520	direct
1 X 50 ml round (set of 6)	6	28.5	112	10000	12520	11210577
1 X 30/38 ml (set of 8)	6	26	91	10000	10174	11174599
1 X 15 ml conical (set of 4)	6	17.5	105	10000	11738	11174606
1 X 10 ml (set of 4)	6	17	112	10000	12520	11177378

AC2.14 Sealed Microtube Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
AC2.14 Sealed Rotor 45°	24 x 2 ml	11	84	14600	20016	11175741
Spare lid for AC2.14 Rotor						11175642

Adapters: see adapters for FIBERLite High-Throughput Microtube Rotor

FIBERLite® High-Throughput Microtube Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
FIBERLite Microtube Rotor 45°	48 x 2 ml	11	97	14600	23113	11210351
Adapters (set of 24)						
1 x 2/1.5 ml	24 / 48	10				direct
1 x 0.5 / 0.8 ml	24 / 48	8				41174928
1 x 0.5 ml	24 / 48	6				41174938
1 x 0.2 ml PCR	24 / 48	6				11174631

DC6.11 Drum Rotor

Description	Rotor Capacity	Max Tube ø (mm)	Radius (mm)	Max Speed (rpm)	Max RCF (xg)	Cat. No.
DC6.11 Drum Rotor 90°		N/A	72	14600	17158	11175743
Adapters (one rack)						
10 x 1.5-2 ml	60	11				11174566
20 x 0.5-0.8 ml Microtainer™	120	8				11174573
20 x 0.7 ml Rhesus	120	6				11174574
21 x 0.6 ml Viatron	126	6				11174563
32 x 0.25-0.4 ml Beckman	192	6				11174562

Thermo Scientific Heraeus Megafuge 11 Centrifuge Series Specifications



Specifications	Megafuge 11	Megafuge 11R
Max Capacity		
Swing-out	4 x 280 ml	4 x 280 ml
Fixed-angle	6 x 100 ml	6 x 100 ml
Max Density	1.2	1.2
Max Load	1.34 kg	1.34 kg
Max Speed		
Swing-out	4100 rpm	4100 rpm
Fixed-angle	14600 rpm	14600 rpm
Max RCF		
Swing-out	3176 x g	3176 x g
Fixed-angle	23113 x g	23113 x g
Control System	Microprocessor	Microprocessor
Programs	4 + pre-cooling with direct recall	4 + pre-cooling with direct recall
Speed Set/Display		
Range	500 - 14600 rpm	500 - 14600 rpm
Step	10 rpm at less than 1000 rpm 100 rpm at above 1000 rpm	10 rpm at less than 1000 rpm 100 rpm at above 1000 rpm
Accuracy	+/- 20 rpm (display)	+/- 20 rpm (display)
RCF Set/Display		
Range	10 - 23100	10 - 23100
Step	10 x g at less than 1000 x g 100 x g at above 1000 x g	10 x g at less than 1000 x g 100 x g at above 1000 x g
Accuracy	+/- 20 x g (display)	+/- 20 x g (display)
Radius Control Accuracy	1 mm	1 mm
Timer Set/Display	30 sec - 99 min + continuous	30 sec - 99 min + continuous
Temperature Set/Display	N/A	-9°C to 40°C
Acceleration Rates	5	5
Braking Rates	5 + inertial	5 + inertial
Drive System	Direct	Direct
Motor Type	Brushless induction	Brushless induction
Power (average / max)	350 / 500W	550 / 800 W
Sound level (6x50 ml at 10000 rpm)	61 dBA	54 dBA
Sound level (4x280 ml at 4100 rpm)	62 dBA	59 dBA
Standards	IEC 1010-1, IEC 1010-2-020, CE marked	IEC 1010-1, IEC 1010-2-020, CE marked

Ordering Information	Megafuge 11	Megafuge 11R
Catalog Numbers		
230V - 50/60 Hz	75004410	75004412
120 V - 60 Hz	75004411	75004413
Product Dimensions		
Height / lid closed [cm / in]	37 / 14.6	37 / 14.6
Width [cm / in]	40 / 15.7	57 / 22.4
Depth [cm / in]	50 / 19.7	60 / 23.6
Weight [kg / lb]	40 / 88.1	72 / 158.7
Packing Dimensions		
Height [cm / in]	60 / 23.6	61 / 24.0
Width [cm / in]	61 / 24.0	76 / 29.9
Depth [cm / in]	54 / 21.2	74 / 29.1
Weight [kg / lb]	52 / 114.6	85 / 187.3

Unrivalled Quality and Reliability

Thermo Scientific Heraeus centrifuges are renowned for their superior quality and outstanding reliability. From compact tabletop instruments to high-capacity floor models, Heraeus centrifuges provide years of safe, user-friendly operation, and deliver consistent, high-throughput separations.

Worldwide Service and Support

We are committed to keeping your lab equipment working at peak performance levels. Our goal is to help you lower ownership costs, manage labs more effectively, and increase productivity. Contact your local account representative to learn more about our service offerings,

including service agreements, preventive maintenance, on-site field repair, depot repair, compliance services and educational services.

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