



**Thermo Scientific Heraeus
Primo and Primo R
Centrifuges**

Flexible and efficient, compact high-performance centrifuges

Thermo Scientific Heraeus Primo and Primo R Centrifuges



The compact high-performance Thermo Scientific Heraeus Primo and Primo R centrifuges offer the functionality of three centrifuges.

The Heraeus® Primo and its refrigerated counterpart, the Heraeus Primo R are microliter, high speed and general purpose centrifuges all at the same time.

Rotor Flexibility

Six fixed angle, swinging bucket and microliter rotors for all common tubes from 0.2 to 100 mL are available for applications using microliter, DIN, blood sample and disposable conical tubes. In addition, a 12-place swinging bucket rotor for micro tubes is available for the Heraeus Primo R.

User-Friendly Technology

The automatic rotor recognition system identifies the rotor being used and allocates individual parameters to improve lab efficiency. Rapid acceleration and braking times minimize waiting and ensure rapid

sample processing. Low noise levels during operation provide a more comfortable working environment.

Imbalance Recognition

The Heraeus Primo series is equipped with electronic imbalance recognition. Not only does it react if the centrifuge is loaded incorrectly, but it also registers imbalances during a run caused, for example, by tube breakage. Centrifugation is interrupted and the user can remove the rotor and, if necessary, decontaminate it.

User Comfort

The Thermo Scientific EASYcontrol II user panel clearly displays all parameters. Self explanatory symbols, which are internationally recognized, and the clear arrangement of function keys help you avoid incorrect operation. The time and speed parameters are set with the easy-to-clean touch panel. Two acceleration and nine braking curves are available for sensitive samples.

Thermo Scientific Heraeus Primo and Primo R Rotors and Accessories



75007588



75007591



75007595

Thermo Scientific Highconic Rotor

- Fixed angle rotor for 6 x 50 mL with max. 10,000 x g
- The flat angle of 45° ensures that sample material does not run out and the pellet forms at the bottom of the tube
- Adapter for highspeed tubes from 1.5 to 50 mL and 15 or 50 mL disposable conical tubes

Highconic® Rotor 45°

Max. capacity	mL	6 x 50
Max. speed	rpm	8,500
Max. RCF	x g	10,015
Acceleration time	s	41
Braking time	s	30
Max. radius	cm	12.4
Min. temperature (only Heraeus Primo R [®])	°C	-1°
Cat No.		75007588

1) At max. speed and 23°C room temperature

Adapter for Highconic Rotor 75007588

Adapter	Max. tube size (mm)		Tubes per Adapter	Rotor	Cat No.
	Length				
1.5 mL micro tubes	11	57	4	24	76002905
3.5 mL	11	100	4	24	75003091
6.5 mL	13	113	2	12	75003092
12 mL	16	95	2	12	75003093
16 mL	18	122	1	6	76002906
38 mL	25	112	1	6	75003094
50 mL	29	122	1	6	75003102
15 mL disposable conical	16.5	120	1	6	75003095
50 mL disposable conical	30	117	1	6	75003103

1) Included in the price of the rotor

Swinging Bucket Rotor

- A round bucket for 4 x 100 mL max
- Adapters for all types of tubes such as DIN, blood sample, disposable conical and micro tubes from 1.5 to 100 mL
- An aerosol tight cap is available as an option

Swinging Bucket Rotor

Max. capacity	mL	4 x 100
Max. speed	rpm	4,000
Max. RCF	x g	2,585
Acceleration time	s	22
Braking time	s	20
Max. radius	cm	14.5
Min. temperature (only Heraeus Primo R [®])	°C	-9°
Cat No.		

Rotor 75007591

Round bucket 75007555

1) At max. speed and 23°C room temperature

Adapter for Swinging Bucket Rotor 75007591

Adapter	Max. tube size (mm)		Tubes per Adapter	Rotor	Cat No.
	Length				
1.5/2 mL micro tubes	11	42	10	40	75007547
5 mL blood sample	13	75	5	20	75003599
7 mL DIN	12	102	5	20	75007545 ²⁾
7 mL blood sample	13	105	3	12	75007546 ²⁾
10 mL blood sample	16	100	4	16	75003598
15 mL DIN/blood sample	17	104	3	12	75007544 ²⁾
25 mL DIN	25	110	1	4	75007543
50 mL DIN	35	105	1	4	75007542
100 mL	44	100	1	4	—
15 mL disposable conical	16.5	120	1	4	75007557
50 mL disposable conical	30	117	1	4	75007556
Aerosol-tight cap for round bucket					75007598

2) Distance pads must be used for tubes shorter than 80 mm (pack of 8, Cat No. 76003266)

Drum Rotor

- Suitable for high capacities of up to 80 microlitre tubes
- Reduced braking and acceleration times
- Racks for every volume
- A 60° angle rack for 1.5 mL tubes makes operations easier
- PCR rack for 3 "PCR strips" with 8 tubes

Drum Rotor

Max. capacity	mL	80 x 1.5/2
Max. speed	rpm	12,000
Max. RCF	x g	14,005
Acceleration time	s	31
Braking time	s	20
Max. radius	cm	8.7
Min. temperature (only Heraeus Primo R [®])	°C	4°
Cat No.		75007595

1) At max. speed and 23°C room temperature

Racks for Drum Rotor 75007595

Racks	Tubes per Adapter	Rotor	Color	Cat No.
1.5 mL microliter tubes	10	80	Yellow	76001499
1.5/2 mL microliter tubes	10	80	Red	76001244
1.5/2 mL microliter tubes (60°)	6	48	Gray	75001498
0.3 mL micro capillary tubes	8	64	Blue	76001246
0.5/0.6 mL microliter tubes	15	120	Green	76001247
0.25/0.4 mL microliter tubes	20	160	Yellow	76001248
PCR strips with 8 tubes	3	12	Nature	76001587



Indicates that the centrifuge accessory has been successfully tested for biological containment.



75007593



75007592

Microliter

- User-oriented angle of 45°
- High performance of 21,885 x g for 24 x 1.5/2 mL
- Aerosol-tight and infinitely autoclavable

Microliter Rotor 45°

Max. capacity	mL	24 x 1.5/2
Max. speed	rpm	15,000
Max. RCF	x g	21,885
Acceleration time	s	25
Braking time	s	18
Max. radius	cm	8.7
Min. temperature (only Primo R ¹⁾)	°C	4°
Cat No.		75007593

1) At max. speed and 23°C room temperature

Adapter sets for the Microliter Rotor 75007593

Adapter set (24 pieces)	Color	Cat No.
0.5/0.6 mL microliter tubes	Turquoise	76003758
0.25/0.4 mL microliter tubes	Red	76003759
0.2 mL PCR tubes	Gray	76003750

1) Included in the price of the rotor

Microliter Swinging Bucket Rotor

- High RCF of 16,438 x g
- Separation of liquid multi-phase systems, e.g. extracts with organic solvents
- Centrifugation of filtration units
- Density gradient-separation of cells/cell organelles
- Semi-preparative centrifugation of proteins and DNA

Microliter Swinging Bucket Rotor*

Max. capacity	mL	12 x 1.5/2
Max. load	g	12 x 4
Max. speed	rpm	13,000
Max. RCF	x g	16,438
Cat No.		75007592

1) At max. speed and 23°C room temperature

* Available only with Hereaus Primo R model



Rotor Safety

Centrifuge rotor maintenance is critical to the safety of your lab. We offer rotor safety seminars and rotor inspection and safety clinics to ensure the longevity of your investment, and the safety of your workplace. If you would like to learn more about hosting a clinic at your facility or taking part in one at one of our facilities, please contact your local Thermo Scientific product representative for further information or visit www.thermo.com/rotors.

Typical Applications

- Sedimentation of cells (algae, yeast, bacteria, etc.)
- Sedimentation of cell organelles and cell fragments
- Sample preparation for HPLC, (capillary) electrophoresis, etc.
- Separation of DNA and protein precipitates
- Blood and urine analysis
- Centrifugation of standard test series in microliter tubes

Trust Thermo Scientific NALGENE and NUNC centrifuge bottles and tubes to deliver quality and performance. These products are in conformance with ISO 13485: 2003, cGMP and USP Class VI; you'll find updated speed ratings and lot specific product certificates online. Available in a variety of resins, with capacities from 10mL to 2L, Nalgene® and Nunc® consumables are guaranteed a perfect fit with Thermo Scientific centrifuges and rotors.



Heraeus Primo and Primo R, the ideal centrifuge for:

- Small medical laboratories
- Biochemistry and molecular biological research
- Routine analysis in industrial laboratories

Thermo Scientific Heraeus Primo and Primo R Centrifuges



Specifications	Heraeus Primo	Heraeus Primo R
Drive	Induction drive without carbon brushes	Induction drive without carbon brushes
Control	EASYcontrol® II microprocessor controlled	EASYcontrol II microprocessor controlled
Max. speed rpm	15,000, adjustable in increments of 10	15,000, adjustable in increments of 10
Min. speed rpm	300	300
Max. RCF x g	21,885	21,885
Max. capacity (fixed angle rotor)	6 x 50 mL high-speed tubes 6 x 15/50 mL disposable conical	6 x 50 mL high-speed tubes 6 x 15/50 mL disposable conical
Max. capacity (swinging bucket rotor)	4 x 100 mL DIN 4 x 15/50 mL disposable conical 12 x 7/15 mL blood sample	4 x 100 mL DIN 4 x 15/50 mL disposable conical 12 x 7/15 mL blood sample
Temperature range ° C	–	–9 to 40
Braking/accel. curves	9/2	9/2
Noise level at max. speed	< 62 dB	< 60 dB
Run time	0–9 hrs 59 mins, cont. operation (hold)	0–9 hrs 59 mins, cont. operation (hold)
Functions	RCF pre-selection, quick-run	RCF pre-selection, quick-run
Rotor recognition	Automatic	Automatic
Imbalance recognition	Electronic, ideally tuned for every rotor	Electronic, ideally tuned for every rotor
Program memory	The most recent data remains in the memory	The most recent data remains in the memory
Construction	Galvanized steel chassis with armored chamber and plastic outer casing	Galvanized steel chassis with armored chamber and plastic outer casing
Centrifuge protection	Lid lock and interlock	Lid lock and interlock
Dimensions (H x W x D) mm (inch)	315 x 380 x 475 (12.4 x 15 x 16.7)	313 x 580 x 493 (12.3 x 22.8 x 15.3)
Weight kg (lb)	40 (88)	69.5 (153)
Power consumption W	350	490
Test standards	Manufactured and tested in accordance with EN 61 010-1, EN 61 010-2-020, EN 50 081-1, EN 50 082-1; UVV VBG 7z test is not required	Manufactured and tested in accordance with EN 61 010-1, EN 61 010-2-020, EN 50 081-1, EN 50 082-1; UVV VBG 7z test is not required

Ordering Information	Heraeus Primo	Heraeus Primo R
230 V, 50/60 Hz, excluding accessories	75005181	75005440
120 V, 50 Hz, excluding accessories	75005182	75005441

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