



**Thermo Scientific Sorvall  
Primo and Primo R  
Centrifuges**

**Flexible and efficient, compact high-performance centrifuges**

## Thermo Scientific Sorvall Primo and Primo R



### Our compact high-performance Thermo Scientific Sorvall Primo and Primo R centrifuges offer the functionality of three centrifuges.

The Sorvall® Primo, and its refrigerated counterpart, the Sorvall 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. Additionally, a 12-place swinging bucket rotor for micro tubes is available for the Sorvall 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 Sorvall 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 Sorvall 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 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 type tubes

#### Highconic® Rotor 45°

<b>Max. capacity</b>	mL	6 x 50
<b>Max. speed</b>	rpm	8,500
<b>Max. RCF</b>	x g	10,015
<b>Acceleration time</b>	s	41
<b>Braking time</b>	s	30
<b>Max. radius</b>	cm	12.4
<b>Min. temperature</b> (only Sorvall Primo R <sup>®</sup> )	°C	-1°
<b>Cat No.</b>		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 <sup>1)</sup>	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

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

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 <sup>2)</sup>
7 mL blood sample	13	105	3	12	75007546 <sup>2)</sup>
10 mL blood sample	16	100	4	16	75003598
15 mL DIN/blood sample	17	104	3	12	75007544 <sup>2)</sup>
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	030	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 12, 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

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

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

### 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\*

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

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

\* Available only with Sorvall 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](http://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.



Sorvall Primo and Primo R,  
the ideal centrifuge for:

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

## Thermo Scientific Sorvall Primo and Primo R



Specifications	Sorvall Primo	Sorvall Primo R
<b>Drive</b>	Induction drive without carbon brushes	Induction drive without carbon brushes
<b>Control</b>	EASYcontrol® II microprocessor controlled	EASYcontrol II microprocessor controlled
<b>Max. speed</b> rpm	15,000, adjustable in increments of 10	15,000, adjustable in increments of 10
<b>Min. speed</b> rpm	300	300
<b>Max. RCF</b> x g	21,885	21,885
<b>Max. capacity</b> (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 15/50ml disposable conical
<b>Max. capacity</b> (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
<b>Temperature range</b> ° C	–	– 9 to 40
<b>Braking/accel. curves</b>	9/2	9/2
<b>Noise level at max. speed</b>	< 62 dB	< 60 dB
<b>Run time</b>	0–9 hrs 59 mins, cont. operation (hold)	0–9 hrs 59 mins, cont. operation (hold)
<b>Functions</b>	RCF pre-selection, quick-run	RCF pre-selection, quick-run
<b>Rotor recognition</b>	Automatic	Automatic
<b>Imbalance recognition</b>	Electronic, ideally tuned for every rotor	Electronic, ideally tuned for every rotor
<b>Program memory</b>	The most recent data remains in the memory	The most recent data remains in the memory
<b>Construction</b>	Galvanized steel chassis with armored chamber and plastic outer casing	Galvanized steel chassis with armored chamber and plastic outer casing
<b>Centrifuge protection</b>	Lid lock and interlock	Lid lock and interlock
<b>Dimensions</b> (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)
<b>Weight</b> kg (lb)	40 (88)	69.5 (153)
<b>Power consumption</b> W	350	490
<b>Test standards</b>	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	Sorvall Primo	Sorvall Primo R
230 V, 50/60 Hz, excluding accessories	75005185	75005453
120 V, 50 Hz, excluding accessories	75005184	75005448

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[www.thermo.com/centrifuge](http://www.thermo.com/centrifuge)

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