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Thermo Scientific Sorvall® Legend® T Plus and RT Plus Centrifuge Series



Unmatched versatility, exceptional throughput



Introducing the next great Legend in sample preparation.

From the world leader in serving science comes a breakthrough in tabletop centrifuge performance. The Thermo Scientific Sorvall® Legend® T Plus and RT Plus Centrifuge Series delivers unprecedented speed and capacity together with the widest range of rotors and adapters available for a premium three-liter centrifuge. Supporting both research and clinical separation needs, our Sorvall Legend T Plus and RT Plus Series easily accommodates blood collection tubes, conical tubes, flasks and microtubes, while four ultra-light carbon fiber rotors allow you to process more samples more quickly than ever before – freeing you to focus on results.



Thermo Scientific Sorvall Legend T Plus and RT Plus Rotors and Accessories



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

TTH-750 High-Capacity Swing-Out Rotor

Description	Rotor Capacity	Max Tube Dimensions (diameter x length, mm)	Sorvall Legend T/RT Plus (120V) Max Speed (rpm)	Sorvall Legend T/RT Plus (120V) Max RCF (x g)	Sorvall Legend T/RT Plus (230V) Max Speed (rpm) T/RT	Sorvall Legend T/RT Plus (230V) Max RCF (x g) T/RT	Catalog Number
TTH-750 High-Capacity Swing-Out Rotor							**75006445**
Buckets (sold individually unless otherwise noted)							
TTH-750 High-Capacity Swing-Out Rotor (Toolless)							75006434
Round buckets, 4 x 750 ml	4 x 750 ml	100 x 136	4150	3700	4350/4600	4080/4570	75006441
Sealing lids for round buckets (set of two)							75006421
Rectangular buckets, 4 x 250 ml	4 x 250 ml	62 x 120	3750	2990	4350/4600	4020/4490	75006446
Sealing lids for rectangular buckets (set of two)							75006448
Tissue culture T-75 horizontal flask carrier[1]	4 x T-75 ml	60 x 127	4150	3060	4150/4150	3060/3060	75006451
Microplate carrier	4 x 4 standard (16)/ 4 x 1 deep-well (4)	60 x 127	4150	3060	4350/4600	3360/3760	75006449
Tissue culture 250 ml conical bottle carrier	4 x 250 ml	62 x 173	3750	3350	4350/4600	4510/5040	75006497
Bucket, 25 x 5/7 ml blood collection tubes	100 x 5/7 ml						75006470
Bucket, 20 x 10 ml blood collection tubes	80 x 10 ml						75006471
Bucket, 17 x 15 ml disposable conical tubes	68 x 15 ml	19 x 119	4350	4083	4350/4600	4083/4566	75002023
Bucket, 7 x 50 ml disposable conical tubes	28 x 50 ml	29 x 115	4350	4083	4350/4600	4083/4566	75002024
Bucket, 1 x Aerosolve® canister	**4**						**75006440**
Adapters for round bucket, 75006441 (sold individually unless otherwise noted)							
250 ml flat-bottomed bottle	4 x 250 ml	62 x 140					75008144
225/175 ml disposable conical bottle	4 x 225 ml	62 x 140					75008144 + 03095[2]
50 ml round-bottomed tube	28 x 50 ml	29 x 123					75006493
50 ml disposable conical tube (set of four)	**28 x 50 ml**	**29 x 115**					**11210826**
50 ml disposable skirted-conical tube	20 x 50 ml	29 x 115					75006533
15 ml standard tube	76 x 15 ml	17 x 122					75008135
10/15 ml blood collection tube	68 x 10/15 ml	16 x 125					75008136
15 ml disposable conical tube	48 x 15 ml	19 x 119					75008137
10 ml blood collection tube (set of four)	**84 x 10 ml**	**16 x 100**					**11210821**
5/7 ml blood collection tube (set of four)	**108 x 5/7 ml**	**13 x 75/ 13 x100**					**11210822**
7 ml standard tube	140 x 7 ml	13 x 122					75008133
1.5/2.0 ml disposable microtubes	192 x 1.5/2 ml	11 x 42					75008132
T-75 Nunc™ EasyFlask (set of two)	4 x T-75 ml						75008383
T-25 Nunc EasyFlask (set of two)	4 x T-25 ml						75008384
Adapters for rectangular bucket, 75006446 (sold individually)							
250 ml flat-bottomed bottle	4 x 250 ml	62 x 120					75006465
50 ml round-bottomed tube	16 x 50 ml	29 x 123					75006491
50 ml disposable conical or skirted tube	16 x 50 ml	29 x 115					75006461
10/15 ml standard/blood collection tube	64 x 10/15 ml	17 x 112					75006455
15 ml disposable conical tube	36 x 15 ml	19 x 119					75006456
5/7 ml blood collection tube	80 x 5/7 ml	13 x 75/ 13 x 100					75006454 + 75005253[2]
7 ml standard tube	112 x 7 ml	13 x 113					75006453
1.5/2.0 ml disposable microtubes	224 x 1.5/2.0 ml	11 x 42					75006452

1. Suitable for Nunc EasyFlask, Greiner Cell Star, and Cell Coat Flasks
2. Both adapters must be used



Bioshield® Windshielded Swinging Bucket Rotor

Description	Rotor Capacity	Max Tube Dimensions	Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	Catalog Number
Bioshield Windshielded Swinging Bucket Rotor, 4 x 250	**4 x 250 ml**	**62 x 120**	**5350**	**5820**	**5350/5850**	**5820/6960**	**75006435**
Adapters for Bioshield rectangular bucket (sold individually)							
250 ml flat-bottomed bottle	4 x 250 ml	62 x 120					75006465
50 ml round-bottomed tube	16 x 50 ml	29 x 123					75006491
50 ml disposable conical or skirted tube	16 x 50 ml	29 x 115					75006461
10/15 ml standard/blood collection tube	64 x 10/15 ml	17 x 112					75006455
15 ml disposable conical tube	36 x 15 ml	19 x 119					75006456
5/7 ml blood collection tube	80 x 5/7 ml	13 x 75/ 13 x 100					75006454 + 75005253[2]
7 ml standard tube	112 x 7 ml	13 x 113					75006453
1.5/2.0 ml disposable microtubes	224 x 1.5/2.0 ml	11 x 42					75006452

2. Both adapters must be used



HIGHplate® Windshielded Microplate Rotor

Description	Rotor Capacity	Max Tube Dimensions (w x l x h, mm)	Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	Catalog Number
HIGHplate Windshielded Microplate Rotor	**10 standard or 2 deep-well**	**86 x 128 x 85**	**5250**	**5084**	**5250/5650**	**5085/5890**	**75006444**





F14-6 x 250LE Carbon Fiber Large-Volume Rotor

Description	Rotor Capacity	Max Tube Dimensions (diameter x length, mm)	Sorvall Legend T/RT Plus (120V) Max Speed (rpm)	Sorvall Legend T/RT Plus (120V) Max RCF (x g)	Sorvall Legend T/RT Plus (230V) Max Speed (rpm) T/RT	Sorvall Legend T/RT Plus (230V) Max RCF (x g) T/RT	Catalog Number
F14-6 x 250LE Carbon Fiber Large-Volume Rotor	**6 x 250 ml**	**61 x 124**	**10000**	**15316**	**10000/11000**	**15316/18533**	**75006517**
Adapters for F14-6 x 250LE rotor (set of two)							
50 ml disposable conical tubes	6 x 250 ml	29 x 115					75100136
15 ml disposable conical tubes	30 x 15 ml	19 x 119					75101073



Fixed-Angle Rotor

Description	Rotor Capacity	Max Tube Dimensions	Max Speed (rpm) T/RT	Max RCF (x g) T/RT	Max Speed (rpm)	Max RCF (x g)	Catalog Number
Fixed-Angle Rotor, 6 x 94 ml	**6 x 94 ml**	**38 x 114**	**10500/12000**	**12450/16260**	**10500/12000**	**12450/16260**	**75003334**
Adapters for 6 x 94 ml rotor (sold individually)							
50 ml round-bottomed tube	6 x 50 ml	29 x 114					75003102
38 ml round-bottomed tube	6 x 38 ml	25 x 104					75003094
16 ml round-bottomed tube	6 x 16 ml	18 x 114					76002906
12 ml round-bottomed tube	12 x 12 ml	16 x 89					75003093
6.5 ml round-bottomed tube	12 x 6.5 ml	13 x 108					75003092
3.5 ml round-bottomed tube	24 x 3.5 ml	11 x 91					75003091
1.5 ml conical microtube	24 x 1.5 ml	11 x 42					76002905



F13-14 x 50c Carbon Fiber Conical Tube Rotor

Description	Rotor Capacity	Max Tube Dimensions	Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	Catalog Number
F13-14 x 50c Carbon Fiber Conical Tube Rotor	**14 x 50 ml**	**29 x 115**	**9000**	**13855**	**9000/10000**	**13855/17105**	**75006526**
Adapters for F13-14 x 50c rotor (set of two)							
15 ml disposable conical tube	14 x 15 ml	19 x 119					75100378



F15-8 x 50c Carbon Fiber Conical Tube Rotor

Description	Rotor Capacity	Max Tube Dimensions	Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	Catalog Number
F15-8 x 50c Carbon Fiber Conical Tube Rotor	**8 x 50 ml**	**29 x 115**	**12000**	**16743**	**14000/14500**	**22789/24446**	**75006516**
Adapters for F15-8 x 50c rotor (set of two)							
15 ml disposable conical tube	8 x 15 ml	19 x 119					75100378



Highconic Rotor

Description	Rotor Capacity	Max Tube Dimensions	Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	Catalog Number
Highconic Rotor, 6 x 50 ml	**6**	**29 x 115**	**8500**	**10020**	**8500**	**10020**	**75003057**
Adapters for 6 x 50 ml rotor (sold individually)							
50 ml disposable conical tube (six adapters included with rotor)	6 x 50 ml	29 x 115					75003103
50 ml round-bottomed tube	6 x 50 ml	29 x 118					75003102
38 ml round-bottomed tube	6 x 38 ml	25 x 112					75003094
16 ml round-bottomed tube	6 x 16 ml	18 x 124					76002906
15 ml disposable conical tube	6 x 15 ml	19 x 119					75003095
12 ml round-bottomed tube	12 x 12 ml	16 x 96					75003093
6.5 ml round-bottomed tube	12 x 6.5 ml	13 x 108					75003092
3.5 ml round-bottomed tube	24 x 3.5 ml	11 x 103					75003091
1.5 ml round-bottomed tube	24 x 1.5 ml	11 x 42					76002905



F21-48 x 1.5/2.0 ml Carbon Fiber Microtube Rotor

Description	Rotor Capacity	Max Tube Dimensions	Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	Catalog Number
F21-48 x 1.5/2.0 ml Carbon Fiber Microtube Rotor	**48 x 1.5/2.0 ml**	**11 x 42**	**15000**	**24400**	**15000**	**24400**	**75006527**



Microliter Rotor (RT Plus only)

Description	Rotor Capacity	Max Tube Dimensions	Max Speed (rpm)	Max RCF (x g)	Max Speed (rpm)	Max RCF (x g)	Catalog Number
24 x 1.5/2.0 ml Microliter Rotor	**24 x 1.5/2.0 ml**	**11 x 42**	**15000**[3]	**21890**[3]	**15000**[3]	**21890**[3]	**75003332**
Adapters for 24 x 1.5/2.0 ml rotor							
0.5/0.6 ml microliter tubes (24/pkg)	24 x 0.5/0.6 ml	8 x 42					76003758
0.24/0.4 ml microliter tubes (24/pkg)	24 x 0.24/0.4 ml	6 x 38					76003759
0.2 ml microliter tubes (24/pkg)	24 x 0.2 ml	6 x 38					76003750

3. RT Plus only

Note: Sorvall Legend T/RT centrifuges manufactured prior to 2007 may require a software upgrade to operate carbon fiber rotors. Please contact your sales or service representative to obtain a part number and pricing where applicable.



Push your productivity to the next level with high-capacity accessories

The Sorvall Legend T Plus and RT Plus Series offers industry-leading capacity and performance for a three-liter tabletop centrifuge. Rotor systems designed to handle up to 108 x 5/7 ml blood collection tubes, 28 x 50 ml conical tubes, or 6 x 250 ml bottles in a single run allow you to achieve greater levels of productivity.

New carbon fiber rotors from FIBER*Lite*® provide an advanced alternative to traditional metal rotors. Lightweight and easy to handle, these rotors generate less wear on the centrifuge motor and are resistant to corrosion, fatigue, and repeated autoclaving.

Fast-track sample throughput with unmatched versatility
Nine swinging-bucket rotor configurations and seven fixed-angle rotors give the Sorvall Legend T Plus and RT Plus Series unmatched versatility, making it a cost-effective investment for any lab.



Enhanced user and sample safety
The Sorvall Legend T Plus and RT Plus include numerous features to ensure the safety of you and your samples.

- The SMARTspin® imbalance detection system allows for eye balancing of samples with automatic termination of a run if excessive imbalance occurs.
- Automatic rotor recognition ensures precise rotor performance while preventing the use of incorrect rotors or parameters.



Modular, ergonomic design
The Sorvall Legend T Plus and RT Plus Series is designed with a low deck height for easy loading and unloading of samples. The unique soft-touch lid effortlessly clicks into place for worry-free centrifugation.

User-friendly operation
The EASYset™ soft-touch keypad allows for one-touch control of speed, programming, and pre-cooling functions. A bright, easy-to-read LED display allows easy monitoring from across the lab.



Exceptional reliability
The brushless induction drive system guarantees years of dependable performance with minimal maintenance, along with whisper-quiet operation, and powerful acceleration and braking.



Process more samples in less time

- Cut processing times in half and double your throughput with high-capacity carbon fiber rotors
- Spin up to 14 x 50 ml conical tubes in a single run
- Achieve super-speed performance with RCFs up to 24,000 x g on the benchtop
- Safely perform high-RCF, single-step separations using sterile, disposable conical tubes



Thermo Scientific Sorvall Legend T Plus and RT Plus Centrifuge Series Specifications



Specifications	Sorvall Legend T Plus	Sorvall Legend RT Plus
Max Capacity	4 x 750 ml (or 4 x 4 microplates)	4 x 750 ml (or 4 x 4 microplates)
Max RCF	24,400 x g	24,400 x g
Control System	Microprocessor via EASYset (soft-touch keypad)	Microprocessor via EASYset (soft-touch keypad)
Programs	4 user programs	4 user programs
Speed Range	300 - 15,000 adjustable in 10 rpm increments	300 - 15,000 adjustable in 10 rpm increments
Drive System	Brushless induction	Brushless induction
Pre-Cooling Function	N/A	1 pre-temp program
Functions	RCF pre-selection, quick-on, automatic rotor recognition and imbalance detection	RCF pre-selection, quick-on, automatic rotor recognition and imbalance detection
Max Noise Level	< 66 db(A)	< 55 db(A)
Run Time	0 - 9 hrs, 59 mins, continuous operation	0 - 9 hrs, 59 mins, continuous operation
Temperature Range	N/A	-9° C to 40° C, CFC-free refrigerant
Safety	Lid lock and lid interlock (2 automatic lid locks)	Lid lock and lid interlock (2 automatic lid locks)
Standards	EN 61 010-1, EN 61 010-2-020 CE marked, CSA approved	EN 61 010-1, EN 61 010-2-020 CE marked, CSA approved
Electrical	120 V (60 Hz), 230 V (50/60 Hz)	120 V (60 Hz), 230 V (50/60 Hz)

Ordering Information	Sorvall Legend T Plus	Sorvall Legend RT Plus
Catalog Numbers		
120 V (60 Hz)	75004367	750004377
230 V (50/60 Hz)	75004363	750004373
Accessory Carts		
Benchtop	76000077	75000075
Under bench	76000078	76000076
Product Dimensions		
Height (lid closed) [cm/in]	36.2/14.3	36.2/14.3
Width [cm/in]	55.1/21.7	73.3/28.7
Depth [cm/in]	66.6/26.2	66.6/26.2
Weight [kg/lb]	89/196	131/288

A History of Performance and Reliability

For more than 50 years, our Thermo Scientific Sorvall centrifuges have stood for outstanding performance and reliability in the lab. That tradition continues today. From basic benchtop instruments to advanced floor models, we take pride in manufacturing centrifuges that deliver reliable operation and consistent results year after year.

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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