



## Thermo Scientific Sorvall® RC 6™ Plus Superspeed Centrifuge

Accelerating your productivity  
with superior functionality  
and proven reliability



# Thermo Scientific Sorvall RC 6 Plus Superspeed Centrifuge –

Accelerating your productivity with superior functionality and proven reliability

The pursuit of scientific discoveries can be a demanding process. You need to process large quantities of samples quickly and efficiently and ensure that your results are accurate and consistent. Your centrifuge needs to keep pace with new separation and processing applications while providing reliability, ease of use and safe operation.

To cope with these demands, you need equipment that consistently delivers high-quality results, day in and day out.

## The new Thermo Scientific Sorvall RC 6 Plus superspeed centrifuge

is the perfect choice for high-throughput sample processing, offering high speeds and RCFs that will increase your productivity, along with advanced functionality that will keep your research on track as needs, applications and separation protocols change.

And of course, our Sorvall RC 6 Plus superspeed centrifuge offers the time-tested reliability and safety that's synonymous with the Sorvall name, assuring you of dependable performance for many years to come.

## Faster Separations for Greater Productivity

The Sorvall RC 6 Plus is designed for maximum productivity, offering 4 liters of capacity, speeds of up to 22,000 rpm, and RCFs to 55,200 x g. Fast acceleration and deceleration rates deliver additional time savings, so not a minute is wasted.

## Greater Applications Versatility

The Sorvall RC 6 Plus centrifuge is available with an unprecedented array of aluminum and carbon fiber rotors, including fixed-angle, swinging bucket/microplate and special-purpose rotors. With choices spanning FIBERLite® carbon fiber rotors, SUPER-LITE aluminum rotors, and continuous-flow rotors, the Sorvall RC 6 Plus easily handles a wide variety of processing requirements.



◀ The Sorvall RC 6 Plus is engineered to provide unparalleled safety and flexibility. CE and CSA safety requirements are met without bolting the unit to the floor, making it easy to relocate within your facility.

## Safer, by Design

### Cutting-Edge Capabilities for Research

The Sorvall RC 6 Plus centrifuge provides an unmatched array of separation and set-up modes to meet the most diverse research needs:

- Delayed-start and stop function
- Step-run mode
- Password-controlled access
- $\omega^2dt$  integrator function
- GMP/GLP data compliance management option

These innovative features and advanced options ensure precise separations while maximizing your efficiency in the lab.

Unlike other floor model centrifuges, the Sorvall RC 6 Plus meets CE and CSA safety requirements without the need to bolt the instrument to the floor. In addition to providing unparalleled safety, the Sorvall RC 6 Plus provides easier installation and relocation within your facility.

### Protect Valuable Samples

Retaining sample integrity is a top concern. The Sorvall RC 6 Plus is engineered for maximum sample protection. Unlike other centrifuges that require high-maintenance vacuum systems to achieve speed, the Sorvall RC 6 Plus spins samples at atmospheric pressure, without the need for a vacuum. This superior design minimizes

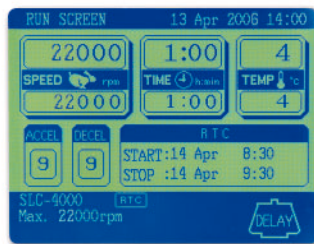
maintenance and helps prevent sample leakage, rotor imbalance and run shut-downs.

### Time-Tested Reliability

Our Thermo Scientific Sorvall centrifuges are renowned for their reliability and long life. The Sorvall RC 6 Plus is built to assure consistent results and maximum uptime, run after run, year after year.



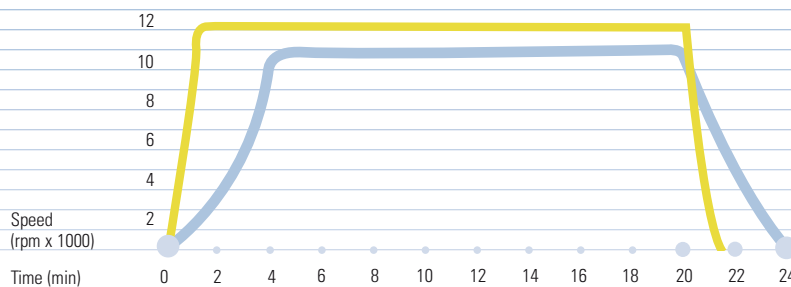
◀ The Sorvall RC 6 Plus centrifuge supports a full range of lightweight, corrosion-resistant carbon fiber rotors from FIBERLite.



▲ The Sorvall RC 6 Plus provides advanced functionality that allows you to adjust separation parameters – such as speed, force, run time, and start and stop times – to meet your precise needs.



▶ Fast acceleration and deceleration rates in the Sorvall RC 6 Plus ensure that samples experience optimal RCFs within the shortest period of time, increasing your throughput.



- SLA-3000 rotor in Thermo Scientific Sorvall RC 6 Plus
- Comparable 3L rotor in other centrifuge



# Unrivalled Functionality for Research

In a busy, multi-user laboratory, you need a versatile superspeed centrifuge that can perform a wide range of separation protocols. The Sorvall RC 6 Plus provides a full range of set-up options that allow you to adjust the settings to meet your precise application requirements.

The Sorvall RC 6 Plus incorporates intuitive controls that make set-up and operation straightforward, even for inexperienced users. Access to powerful functionality requires just a few simple keystrokes, and the bright LCD screen allows you to monitor your set and run conditions at a glance.

## Advanced controls make it easy to meet your diverse application requirements.

### Perform Step-Runs

The step-run function provides greater applications flexibility and delivers better separations.

### Ensure Run-to-Run Reproducibility

The  $\omega^2dt$  integrator function applies the same total centrifugal effect to ensure reproducible separations. It automatically compensates for variations in acceleration due to full or partial rotor loading by adjusting the run time.

### Control Runs by Speed or g Force

In automatic RCF/RPM mode, you can set runs to a maximum speed or to a desired 'g' force. No protocol conversion is necessary.

### Restrict Access

The user lockout feature restricts centrifuge access to authorized users in a multi-user environment. A password is required before the centrifuge will operate.

### Program Convenient Start and Stop Times

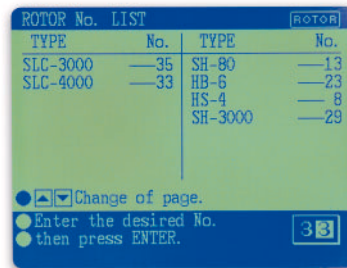
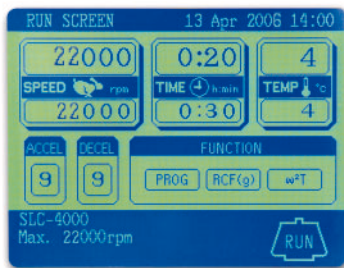
The real-time control mode lets you set up a delayed start/stop run. Schedule runs so that your samples are ready when needed.

### Set-Up and Recall Runs

Save time and steps by creating and storing up to 30 programs into memory, in RPM or RCF mode.

The intuitive, user-friendly operator interface consists of a simple keypad and an easy-to-read, interactive LCD screen.

In automatic RCF/RPM mode, you can set runs to a desired speed or 'g' force.



Key rotor specifications are stored in memory and can be conveniently recalled and viewed on the LCD screen.

# Thermo Scientific Sorvall RC 6 Plus – Performance you can depend on

The Sorvall RC 6 Plus superspeed centrifuge combines advanced functionality, unparalleled safety and proven reliability in a compact, user-friendly design.



## User-Friendly Controls

An easy-to-use operator keypad makes setting protocol parameters simple and straightforward. All set and run conditions can be monitored on the bright LCD panel.

## Compact, Ergonomic Design

The small footprint of the Sorvall RC 6 Plus makes it ideal for labs where space is limited. The low deck height makes rotor loading and unloading effortless.

## High Speed, High Capacity Processing

Offering 4 liters of capacity and processing speeds of up to 22,000 (55,200 x g), the Sorvall RC 6 Plus enables extremely fast processing of your samples.

## Vacuum-Free Processing

The Sorvall RC 6 Plus spins samples at atmospheric pressure, so there are no vacuum seals or filters to maintain, and there is less risk of tube or bottle leakage.

## Optimized for Safety

The Sorvall RC 6 Plus meets CE and CSA safety standards without the need to anchor the unit to the floor.

## Maximum Versatility

With its diverse range of aluminum and carbon fiber rotors, the Sorvall RC 6 Plus can support a wide array of high-throughput sample processing applications.



# A Broad Range of Rotors Expands your Options

The Sorvall RC 6 Plus centrifuge accommodates an extensive range of rotors for unprecedented applications versatility. You can support multiple users and evolving research needs from a rotor set that includes lightweight, corrosion-resistant carbon fiber rotors and SUPER-LITE aluminum rotors.

Many Sorvall RC 6 Plus rotors and accessories are approved for biocontainment with independent certifications by CAMR, Porton Down, UK, the gold standard for biosafety.

The Sorvall RC 6 Plus is compatible with all RC 6 and most Sorvall RC 5 Series centrifuge rotors, making it a cost-effective addition for labs currently utilizing Thermo Scientific Sorvall high-speed centrifuges. Sample formats supported range from 0.25 mL microtubes up to 1-liter bottles.

## NEW

### NEW! Carbon Fiber Rotors

- High-performance carbon-fiber rotors from FIBERLite deliver a whole new level of performance, reliability and efficiency. When used with industry-leading high-speed disposable conical tubes, you can perform separations at higher g-forces to reduce your sample processing steps and achieve significant time-savings.

### Fixed-Angle Rotors

- Our unique SUPER-LITE aluminum rotors offer high speeds and g-forces for fast, efficient separations.
- High-capacity rotors from 1 - 4 L support high-throughput pelleting.
- High 'g' rotors support small-volume processing applications such as cell and tissue homogenate clarification, subcellular fractionation, nucleic acid/protein precipitation and virus concentration.

### Swinging Bucket Rotors

- Select from four swinging-bucket rotors with capacities of up to 3000 mL for gentle sedimentations.
- The versatile SH-3000 rotor can process microplates, PCR plates/tube strips, and all commonly-used centrifugal filtration and purification devices.

### Continuous Flow Rotors

- TZ-28/GK and SS-34/KSB-R rotors are designed for multi-liter cell culture harvesting or the collection of cell-free growth media containing excreted products such as proteins, hormones and vitamins.



### GMP/GLP Data Compliance and Management

The GMP/GLP-compatible data management option for the Sorvall RC 6 Plus offers traceability and quality control for biopharmaceutical processing needs.



FIBERLite carbon fiber rotors spin high-speed disposable conical tubes, allowing you to reduce sample processing steps and achieve significant time savings.





## Thermo Scientific Sorvall RC 6 Plus Superspeed Centrifuge Rotor Selection Guide

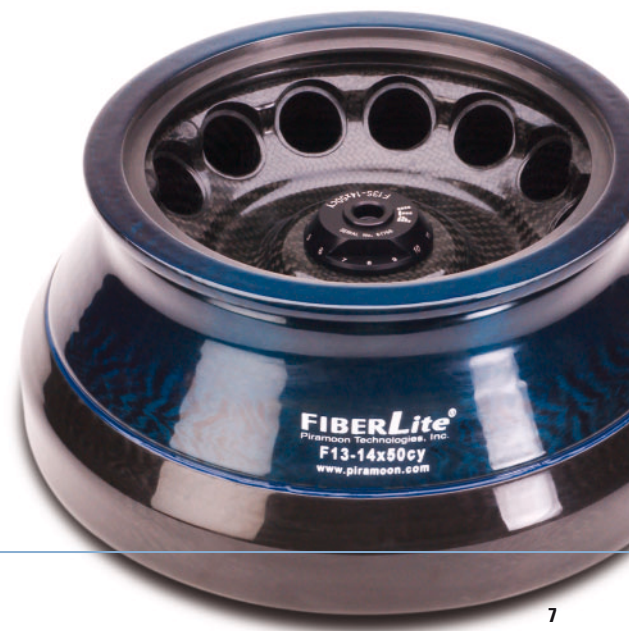
Rotor	Capacity (place x ml)	RC-6 Plus		RC-5 Series		Tube Size (range, ml)	Configuration Options	Catalog Number
		Max. Speed (rpm)	Max. RCF (x g)	Max. Speed (rpm)	Max. RCF (x g)			
<b>Fixed-Angle Rotors – Carbon Fiber</b>								
F9S-4x1000Y	4 x 1,000	8,000	12,006	7,000	9,190	50 – 1,000	Enhanced liquid containment	76981
F14S-6x250	6 x 250	14,000	25,862	14,000	25,862	12-250	non-enhanced liquid containment	785001
F12S-6x500Y	6 x 500	11,000	20,449	10,000	17,600	35 – 500	Enhanced liquid containment	78510
F14S-6x250Y	6 x 250	14,000	25,862	14,000	29,990	12 – 250	Enhanced liquid containment	78500
F21S-8x50	8 x 50	18,000	38,397	–	–	1 – 50		46923
F13S-14x50CY	14 x 50	12,500	26,727	–	–	1 – 50	Enhanced liquid containment	46922
<b>Fixed Angle Rotors – Aluminum</b>								
SLA-3000*	6 x 500	11,000	20,450	11,000	20,450	35 – 500		07149
SLA-1500*	6 x 250	14,500	31,916	14,500	31,920	3 – 250		08142
SLA-1000*	4 x 250	16,500	35,793	16,500	35,790	3 – 250		74200
SA-800*	8 x 100	19,500	42,138	19,500	44,390	1.5 – 100		76940
SS-34/KSB	8 x 50	20,000	47,808	–	–	–		14008
TZ-28/GK	1 x 1350	19,000	38,463	–	–	–		52358
SA-600*	12 x 50	16,500	39,412	16,500	39,410	1 – 50		28500
SS-34*	8 x 50	20,000	47,808	20,000	47,810	1 – 50		28020
F-28/50*	10 x 50	19,000	46,293	–	–	1 – 50		11885
SA-300*	6 x 50	22,000	52,326	20,500	45,390	1 – 50		18100
SA-512	32 x 16	18,500	44,040	18,500	44,040	1.5 – 16		76950
SM-24*	24 x 16	20,000	49,461	20,000	49,460	1.5 – 16		29017
SE-12*	12 x 14	22,000	50,486	21,000	45,960	1.5 – 14		27004
F-20/MICRO*	32 x 1.5	20,000	51,427	20,000	51,430	0.25 – 1.5		27038
F22/MICRO	30 x 1.5/2	22,000	55,193	–	–	0.25 – 2		46921
<b>Swinging Bucket Rotors</b>								
SH-3000*	4 x 750	4,700	4,579	4,350	3,920	1.5 – 750	Rotor w/buckets	11796
	3 standard microplates	4,700	3,709	4,350	3,175	–	Microplate carriers	11779
HS-4	4 x 250	7,500	10,836	7,000	9,640	1 – 250		38018
HB-6*	6 x 50	13,000	27,617	13,000	27,620	1 – 50		11860
SH-80	8 x 10	20,000	45,395	20,000	45,400	10		08296

\* Standard configuration rotors independently tested and certified for biocontainment by CAMR, Porton Down, UK.

### A History of Performance and Reliability

For nearly 60 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.





## Thermo Scientific Sorvall RC 6 Plus Superspeed Centrifuge Specifications and Ordering Information

### Technical Specifications

Maximum speed (rpm)	22,000
Maximum RCF (x g)	55,200
Maximum capacity (mL)	4 x 1,000
Drive	Brushless high frequency motor
Accel/decel rates	9/10
Speed range (rpm)	300 – 22,000
Speed control accuracy (rpm)	± 25
Temperature set range (°C)	-20 to +40 in 1°C increments
Temperature control (°C)	+2 to +40
Temperature accuracy (°C)	±2
Ambient temperature range (°C)	+15 to +40
Dimensions (H x W x D) mm (inches)	1132 x 752 x 835 (44.5 x 29.6 x 32.8) 685 (26.9) depth without rear duct; 850 (33.4) height to top of deck
Weight, kg (lb)	350 (770)
Control	Microprocessor
Programmability	30 programs
Functions	Automatic RCF; $\omega^2dt$ Integrator; Real Time Control; Step-Mode Runs; Controlled Access; Pre-Cool
Run time (hr/min)	99/59; Hold
Electrical V (Hz)	200/208/220/230/240 (50/60), 30 A, single phase; 400/230V (50/60), 25 A, 3 phase
Certification	CE and cCSAus certified

### Ordering Information

Model	Electrical Configuration	Plug	Cat. No.
Sorvall RC 6 Plus Superspeed Centrifuge	200-240 V, 30 A, single phase, 50/60 Hz	NEMA 6-30P and IEC60309 CEE plug 32A-6h 2P+PE included	46910
Sorvall RC 6 Plus Superspeed Centrifuge	400/230V V, 25 A, 3 phase, 50/60 Hz	IEC60309 CEE 32 A-6h 3P+N+PE	46915

### Comprehensive Centrifuge Solutions

We offer a wide range of Sorvall high-performance superspeed and ultraspeed centrifuges for the pursuit of scientific discoveries. Models include the Sorvall Evolution® RC superspeed for fast, high-volume processing, and the Sorvall WX Ultra Series for sample processing at speeds to 100,000 rpm.

As the world leader in serving science, we also offer a full range of high-quality solutions for your laboratory. Visit [www.thermo.com](http://www.thermo.com) for more information.

### 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 Thermo Scientific representative to learn more about our service offerings, including service agreements, preventative maintenance, onsite field repair, depot repair, compliance services and educational services.



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

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