



Sorvall® RC-6™ Plus Superspeed Centrifuge

Accelerating your productivity with superior
functionality and proven reliability

Analyze • Detect • Measure • Control™

Thermo
ELECTRON CORPORATION

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 Sorvall RC-6 Plus superspeed centrifuge from Thermo is the perfect choice for high-throughput sample processing in the lab, offering higher 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, Thermo's 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 RC-6 Plus is designed for maximum productivity, offering 4 liters of capacity and speeds of up to 22,000 rpm with 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 metal and composite rotors, including fixed-angle, swinging bucket/microplate and special purpose rotors. With choices spanning SUPER-LITE® composite, SUPER-LITE aluminum, and continuous-flow rotors, the RC-6 Plus easily handles a wide variety of processing requirements.



Thermo's SUPER-LITE aluminum rotors are 30% lighter than traditional metal rotors, making rotor loading and unloading much easier.

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

Safer, by Design

Cutting-Edge Capabilities for Research

The RC-6 Plus 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
- ω^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 RC-6 Plus meets CE and CSA safety requirements without the need to anchor the instrument to the floor. In addition to providing unparalleled safety, the RC-6 Plus provides easier installation and relocation within your facility.

Minimize Risk and Protect Valuable Samples

Retaining sample integrity is a top concern. The RC-6 Plus is engineered for maximum sample protection. Unlike other centrifuges that require high-maintenance vacuum systems to achieve speed, the 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 that Maximizes Uptime

Thermo's Sorvall centrifuges are renowned for their reliability and long life. The RC-6 Plus is built with that same time-tested reliability, assuring consistent results and maximized uptime, run after run, month after month, year after year.

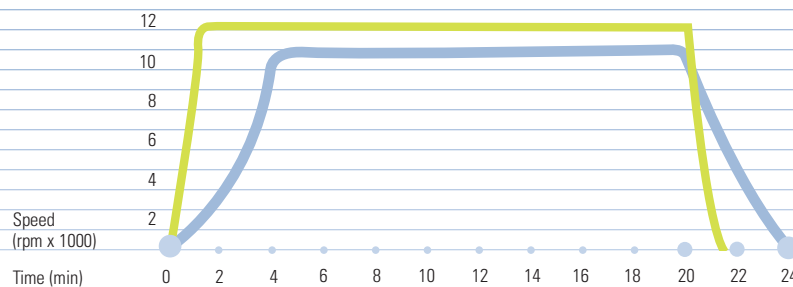


▲ The RC-6 Plus provides advanced functionality that allows you to adjust separation parameters – such as speed, force, run time, and start and stop times – to meet your precise needs.



▲ Corrosion-resistant SUPER-LITE composite rotors are ergonomically designed for easy handling.

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



- SLA-3000 rotor in SORVALL RC-6 PLUS
- Comparable 3L rotor in other centrifuge

Unrivalled Functionality for Research

In the busy, multi-user laboratory, you need a superspeed centrifuge that can perform a wide range of separation protocols. The 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 RC-6 Plus features 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 ω^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 limits 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.



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

Sorvall RC-6 Plus – Performance you can depend on



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 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 RC-6 Plus enables extremely fast processing of your samples.

Vacuum-Free Processing

The 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 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 metal and composite rotors, the RC-6 Plus can support a wide array of high-throughput sample processing applications.



A Range of Rotors to Expand your Options

The 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 composite, SUPER-LITE aluminum and RX™ Rapid Access rotor types. Thermo's unique SUPER-LITE aluminum rotors offer higher top speeds and g-forces for faster, more efficient separations.

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

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

GMP/GLP Data Compliance and Management

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

NEW

NEW! FIBERLite® Composite Rotors

- Thermo's Sorvall RC-6 Plus superspeed centrifuge can be equipped with high-performance carbon-fiber rotors from FIBERLite, delivering a whole new level of performance, reliability and efficiency. When used with industry-leading high-speed disposable conical tubes, you can dramatically enhance tube performance at higher g-forces, reduce your sample processing steps and achieve significant time-savings.

Fixed Angle Rotors

- High capacity rotors from 1 - 4 liters ensure fast, efficient, large-volume cell pelleting.
- High 'g' rotors are optimized for small-volume processing applications that include 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 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.



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

Sorvall RC-6 Plus Superspeed Centrifuge Rotor Reference Guide



| | | RC-6 Plus | | RC-5 Series | | | | |
|------------------------|---------------------------|---------------------|-------------------|---------------------|-------------------|--------------------------|--------------------------|-------------------|
| Rotor | Capacity (place x mL) | Max. Speed (rpm) | Max. RCF (x g) | Max. Speed (rpm) | Max. RCF (x g) | Tube Size (range, mL) | Configuration Options | Catalog Number |
| Fixed Angle Rotors | | | | | | | | |
| SLC-4000 | 4 x 1,000 | 8,000 | 12,006 | 7,000 | 9,190 | 50 – 1,000 | with PC bottles | 76980 |
| | | | | | | | with PP bottles | 76990 |
| SLA-3000* | 6 x 500 | 11,000 | 20,450 | 11,000 | 20,450 | 35 – 500 | Std | 07149 |
| | | | | | | | RX™ | 46620 |
| SLC-3000 | 6 x 500 | 11,000 | 20,449 | 10,000 | 17,600 | 35 – 500 | | 78510 |
| SLA-1500* | 6 x 250 | 14,500 | 31,916 | 14,500 | 31,920 | 3 – 250 | Std | 08142 |
| | | | | | | | RX | 46615 |
| SLC-1500 | 6 x 250 | 14,000 | 25,862 | 14,000 | 29,990 | 12 – 250 | | 78500 |
| 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 |
| F-28/50 | 10 x 50 | 19,000 | 46,293 | – | – | 1 – 50 | | 11885 |
| F21S | 8 x 50 | 18,000 | 38,397 | – | – | 1 – 50 | | 46923 |
| F13S | 14 x 50 | 12,500 | 26,727 | – | – | 1 – 50 | | 46922 |
| SS-34/KSB | 8 x 50 | 20,000 | 47,808 | – | – | – | | 14008 |
| TZ-28/GK | 1 x 1350 | 19,000 | 38,463 | – | – | – | | 52358 |
| SLA-600TC* | 12 x 50 | 13,000 | 27,774 | 12,500 | 25,660 | 1 – 50 | | |
| | | | | | | | Std | 74220 |
| | | | | | | | RX | 46625 |
| SA-600* | 12 x 50 | 16,500 | 39,412 | 16,500 | 39,410 | 1 – 50 | | |
| | | | | | | | Std | 28500 |
| | | | | | | | RX | 46610 |
| SS-34* | 8 x 50 | 20,000 | 47,808 | 20,000 | 47,810 | 1 – 50 | | |
| | | | | | | | Std | 28020 |
| | | | | | | | RX | 46600 |
| 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 | | |
| | | | | | | | Std | 29017 |
| | | | | | | | RX | 46605 |
| SH-MT | 60 x 1.8 | 13,730 | 19,141 | – | – | 0.25 – 1.8 | | 11600 |
| 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 |
| Swinging Bucket Rotors | | | | | | | | |
| 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 carrier | 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 (Std) configuration rotors independently tested and certified for biocontainment by CAMR, Porton Down, UK. RX = Rapid Access rotor option (not certified for biocontainment).

A History of Performance and Reliability

For more than 50 years, Thermo's Sorvall centrifuges have stood for outstanding performance and reliability in the lab. That proud tradition of Sorvall quality and dependability continues today. From basic benchtop instruments to advanced floor model ultras,

Thermo Electron Corporation continues to engineer every Sorvall centrifuge with those very same qualities. You can trust Thermo's family of Sorvall centrifuges for reliable operation and consistent results, day after day, month after month, and year after year.



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; ω^2 dt 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 | | | |
|---------------------------|-------------------------------|---|-----------------|
| Electrical Configurations | Sorvall RC-6 Plus | Plug | Catalog Numbers |
| 50/60 Hz | 200-240 V, 30 A, single phase | NEMA 6-30P and IEC60309 CEE plug 32A-6h 2P+PE included | 46910 |
| 50/60 Hz | 400/230V V, 25 A, 3 phase | IEC60309 CEE 32 A-6h 3P+N+PE | 46915 |

Comprehensive Centrifuge Solutions from Thermo

Thermo Electron Corporation offers a wide range of Sorvall high-performance superspeed and ultraspeed centrifuges for the pursuit of scientific discoveries. Models include Evolution® RC and RC-5 series superspeeds for fast, high-volume processing, and the WX Ultra series for sample processing at speeds to 100,000 rpm.

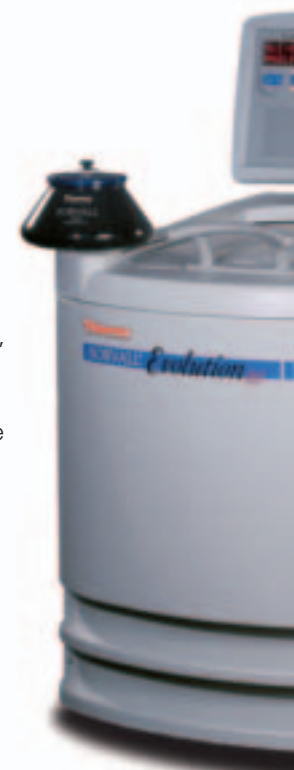
As the world leader in analytical instruments, Thermo also offers a full range of high-quality solutions for your laboratory. Visit www.thermo.com for more information.

Worldwide Service and Support

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



©2006 Thermo Electron Corporation. All rights reserved. Heraeus is produced by Thermo Electron Corporation. Specifications, terms, and pricing are subject to change. Not all products are available in all countries. Please consult your local representative for details.

Thermo
ELECTRON CORPORATION

North America: +1 866 984 3766
Europe: Austria +43 1 801 40 0, Belgium +32 2 482 30 30, Finland +358 9 329 100, France +33 2 28 03 20 00 or +33 1 6918 7777, Germany +49 6184 90 6940 or +49 6103 408 1012, Italy +39 02 95059 1, Netherlands +31 76 571 4440, Russia/CIS +7 095 225 11 15, Spain/Portugal +34 93 223 3154, Switzerland +41 1 454 12 12, UK/Ireland +44 870 609 9203
Asia: India +91 22 5542 9494, Japan +81 45 453 9220, China +86 21 6865 4588 or +86 10 5850 3588,
 Other Asian countries +852 2885 4613
Countries not listed: +49 6184 90 6940 or +33 2 28 03 20 00

www.thermo.com/centrifuge

BRO-SPSRC6P-0406