



Thermo Scientific Sorvall® RC3BP™ Plus Low-speed Centrifuge

Dependable performance that
maximizes your productivity



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Time is a precious commodity in today's busy blood bank or industrial laboratory, making it imperative to process multiple sample batches within strict deadlines with minimal error or delays. To meet this challenge, your low-speed centrifuge must provide dependable, easy-to-use performance that maximizes your productivity.

The new Thermo Scientific Sorvall RC3BP Plus low-speed centrifuge is precision-engineered to maximize your uptime and deliver consistent, reproducible low-speed separations, run after run, year after year. Our Sorvall RC3BP Plus combines outstanding convenience with exceptional ease-of-use to expedite your day-to-day processing. State-of-the-art capabilities and a proven set of rotors and adapters will improve your productivity for key low-speed applications.

- **Blood Banking** – Process up to twelve 250 mL or six 550 mL blood bags, in configurations from singles to quints
- **Large Batch Bioprocessing** – Outstanding 6 x 1 L capacity supports batch processing in biotech and pharmaceutical environments
- **General Sample Processing** – rotor adapters and carriers provides versatility for diverse general-purpose separation protocols

Highest Reliability

Our Thermo Scientific Sorvall low-speed centrifuges have a history of the lowest breakdown and service call rates in the industry. The new Sorvall RC3BP Plus is the result of continuous refinements over decades, so you can depend on it to deliver the same trouble-free performance you have grown accustomed to over the years.



State-of-the-art capabilities are accessed through a familiar, easy-to-use control panel. Frequently-used protocols can be recalled at the touch of a button to minimize time between runs.



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Exceptional Versatility

Our Sorvall RC3BP Plus centrifuge offers an excellent selection of rotors and adapters to support multiple low-speed applications.

- Swinging-bucket rotors support blood processing, bioprocessing and general-purpose separations
- Adapters and carriers accommodate blood bags, tubes, bottles and microplates
- Biocontainment sealing lids provide protection from hazardous samples*

Improved Separations

Advanced capabilities – including Accumulated Centrifugal Effect™ (ACE), step-run and slow start/stop modes – ensure that the Sorvall RC3BP Plus centrifuge delivers precise, reproducible separations, run after run.

Safe, Comfortable Operation

With its low deck height, quiet operation, minimal heat output and increased refrigeration efficiency, the Sorvall RC3BP Plus sets a new standard for operator comfort. An automatic lid-latch system protects users and makes opening and closing the centrifuge effortless.

Easy to Use

The Sorvall RC3BP Plus centrifuge features an easy-to-use operator interface that makes set-up and operation straightforward, even for novice users.

- 15-program memory provides one-touch recall of commonly-used protocols
- Enhanced display enables easy, at-a-glance monitoring of set and run conditions
- Security key prevents unauthorized access

*For use with H-6000A swinging-bucket rotor.



Validation Services for Peace of Mind

Our certified validation engineers will ensure that your Sorvall RC3BP Plus centrifuge meets designated compliance criteria at the time of installation and throughout its long operational life. Annual recertification and preventative maintenance plans are available upon request.

Our validation services also include documentation support to address today's stringent regulatory requirements. We offer a suite of packages that ensure compliance with applicable Installation, Operational and Performance Qualification standards (IQ/OQ/PQ), and can develop customized plans to meet your specific laboratory needs.

The Sorvall RC3BP Plus supports a wide range of rotors and accessories, including the popular H-6000A, known as the "blood banking standard."

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Advanced Capabilities for Demanding Applications

Better Separations in Blood Banking

Our Sorvall RC3BP Plus centrifuge incorporates innovative functionality to maintain the integrity of valuable blood products while maximizing productivity and throughput.

Ensure Run-to-Run Reproducibility

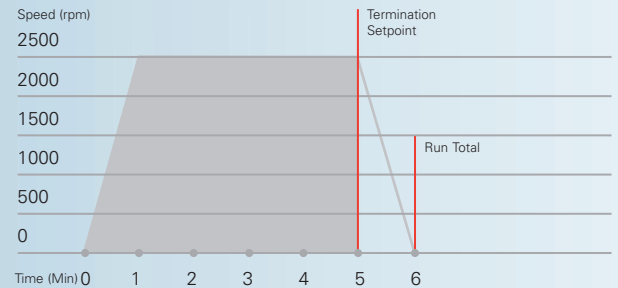
The Accumulated Centrifugal Effect (ACE) function assures you of reproducible blood product yields, regardless of rotor loading. ACE

automatically compensates for variations in acceleration due to full or partial rotor loading by adjusting the centrifuge run time.

Maximize Blood Product Yields

In slow start/stop mode, you can select from 11 acceleration and deceleration profiles to customize results for maximum yields with minimal re-suspension.

Accumulated Centrifugal Effect™



The ACE function ensures that all samples experience the same Total Centrifugal Effect (the area under the speed/time curve) by adding or subtracting time to a run.

Exceptional Performance in Batch Processing

The Sorvall RC3BP Plus supports the 6 x 1 L H-6000A rotor and a full set of adapters for the Nalgene® 1-liter bottle, making it the perfect solution for large-batch bioprocessing applications in biotech and pharmaceutical laboratories.

Process Bacterial Cultures and Clarify Broths

A 6 x 1 L bottle capacity allows you to process a 6-liter bioreactor harvest in a single run. The ACE function and slow/start stop modes maximize yields and reproducibility when processing multiple batches.

Harvest Cell and Tissue Cultures

Adapters for the H-6000A rotor simplify cell and tissue culture harvests, letting you spin sample vessels ranging from 1 L bottles down to 50/15 mL conical tubes.

Protect Valuable Samples

With the Sorvall RC3BP Plus, you can control acceleration and deceleration rates for delicate low-speed pelleting applications.



Our Sorvall RC3BP Plus centrifuge works with the Thermogenesis APX system from Thermogenesis company to automatically separate cord blood into a freezing bag, for the mononuclear cell product, an erythrocyte bag and an excess plasma bag.

Speed in RPM

3000
1000
500
0



Buffy coat protocols can be optimized using the step-run mode, which automatically increments run speed in pre-programmed stages.

The H-6000A rotor accommodates six 1-liter Nalgene bottles, providing excellent capacity for large-batch bioprocessing applications.

1 2 3 4 5 6 7 Time in Minutes

Thermo Scientific Sorvall RC3BP Plus

Easy, user-friendly low-speed processing

Our Sorvall RC3BP Plus centrifuge combines dependable performance and ease-of-use with advanced functionality that maximizes reproducibility and throughput.

Easy Set-Up, Programming and Monitoring

An intuitive operator keypad allows you to recall protocols at the touch of a button. Set and run conditions are easily monitored on the enhanced high-visibility display.

Easy Opening and Closing

The robust, automated lid-lock mechanism protects operators and makes lid openings and closures effortless.

Precise, Reproducible Separations

Accumulated Centrifugal Effect, step-run and slow start/stop modes maximize yields and enhance run-to-run reproducibility.

Whisper-Quiet Operation

A noise level under 58 dBA means you can work near the unit with minimal distraction.

Energy-Efficient Performance

Energy-saving design increases refrigeration efficiency and minimizes heat output, ensuring greater sample stability, reduced energy consumption, and a more comfortable working environment.

Highest Versatility

Swinging-bucket rotors for the Sorvall RC3BP Plus support a diverse array of sample processing applications.



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Industry-standard rotors that support multiple applications

The Sorvall RC3BP Plus centrifuge supports a proven set of rotors for dependable day-to-day processing.

Extensive adapter sets and microplate carriers provide unprecedented applications versatility. You can spin blood bags (with or without in-line filters), tubes and bottles from 1.5 mL to 1,000 mL, and as many as 18 standard microplates.

Sealing lids for the versatile H-6000A swinging-bucket rotor are approved for biocontainment with independent certification by CAMR in Porton Down, UK, the gold standard for biosafety.

H-6000A Swinging-Bucket Rotor – Multi-Tasking Performance for Blood Banking and General-Purpose Separations

The H-6000A rotor offers unsurpassed flexibility for multiple protocols in blood bank, research, biotech and pharmaceutical environments.

- Exceptional 6 x 1 L capacity for large-batch bioprocessing
- Accommodates up to 6 single, double, triple or quad blood bags
- Wide range of adapters for blood collection tubes, conical tubes and bottles
- Accommodates 6 x 3 standard or 6 x 1 deepwell microplates



HBB-6 Swinging-Bucket Rotor – Flexibility for Blood Banking

Designed to meet the specific needs of the blood banking market, the HBB-6 rotor can be used to process a wide range of blood bag types.

- 6 x 550 mL capacity for up to 6 whole blood bags, in configurations from singles to quints
- Adapters for up to 12 platelet-rich plasma and buffy coat bags



HLR-6 Swinging-Bucket Rotor – High Capacity for In-Line Leukofiltration

Developed in partnership with leading blood bag manufacturers, the HLR-6 rotor incorporates a separate filter holder to preserve blood bag integrity.

- 6 x 550 mL capacity for up to 6 triple, quad or quint blood bags with in-line filters
- Optimized for soft-spin conditions using FDA and AABB guidelines for the production of leuko-reduced packed red cells and platelet concentrates



"It's simple. Just give me a dependable centrifuge that works as hard as I do."



Sorvall RC3BP Plus Low-speed Centrifuge Rotors and Adapters



Swinging-Bucket Rotors

Description	Capacity (place x mL)	Max. Tube Dimensions (mm)	Max. Speed (rpm)	Max. RCF (x g)	Catalog Number
H-6000A Swinging Bucket Rotor¹	6 x 1,000	98 x 175	5,000	7,277	11250
Sealing Lids ² (2/pkg)					11776
Microplate Carriers (2/pkg)	6 x 3 Standard or 6 x 1 Deepwell Microplates	60 x 127	5,000	5,186	11267
Adapters for H-6000A Bucket					
450 - 500 mL triple or quad blood bag	6 x 550				00512
450 mL single or double blood bag	6 x 450				00511
500 mL Oak Ridge bottle	6 x 500	70 x 160			00444 + 00511
250 mL Oak Ridge bottle	6 x 250	61 x 124			01092
50 mL disposable conical tube (unsealed bucket)	30 x 50	29 x 115			00436
50 mL disposable conical tube (sealed bucket)	18 x 50	29 x 115			00445
15 mL disposable conical tube	48 x 15	19 x 119			00447
15 mL blood collection tube	108 x 15	16 x 127			00385
10 mL blood collection tube	108 x 10	16 x 100			00385
7 mL blood collection tube	132 x 7	13 x 100			00384
5 mL blood collection tube	132 x 5	13 x 75			00857
HBB-6 Swinging Bucket Rotor¹					
	6 x 550	—	5,000	7,129	11753
Microplate Carriers (2/pkg)	6 x 3 Standard or 6 x 1 Deepwell Microplates	60 x 127	5,000	5,186	11267
Adapters for HBB-6 Bucket					
450 - 550 mL quad blood bag (no adsol)	6 x 550				01094
450 - 550 mL quad or quint blood bag	6 x 550				01098
400 - 450 mL double or triple blood bag	6 x 450				01094
400 - 450 mL single or double blood bag	12 x 450				11751
Platelet-rich plasma or buffy coat bag	12 x ~250				11756
HLR-6 Swinging Bucket Rotor¹					
	6 x 550	—	5,000	7,205	11350
Microplate Carriers (2/pkg)	6 x 3 Standard or 6 x 1 Deepwell Microplates	60 x 127	5,000	5,186	11267
Adapters for HLR-6 Bucket					
450 - 550 mL triple, quad or quint	6 x 550				11358
Blood bag with additive					
400 - 450 mL triple or quad blood bag	6 x 450				11358 + 11365

¹All rotors include rotor and six buckets

²Standard (Std) configuration rotors independently tested and certified for biocontainment by CAMR in 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.

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Sorvall RC3BP Plus Low-speed Centrifuge Specifications and Ordering Information



Technical Specifications	
Maximum speed (rpm)	5,000
Maximum RCF (x g)	7,277
Maximum capacity	6 x 1,000 mL bottles or 12 blood bags
Drive	High-performance induction
Imbalance detector	50 gram tolerance
Accel/decel profiles	11
Run time	1 minute - 99 hours, continuous operation
Temperature control range (°C)	-10 to +40
Dimensions (H x W x D) mm (inches)	1178 x 800 x 905 (46.3 x 31.5 x 35.6)
Weight kg (lb)	445 (981)
Control	Microprocessor
Programmability	15 programs
Functions	ACE; Step-Mode Runs; Slow Start/Stop; Security Key Switch
Safety features	Automatic Lid lock, imbalance detection, steel armored guard ring.
Certification	cULus approved and CE marked

Ordering Information			
Model	Electrical Configuration	Plug	Cat. No.
Sorvall RC3BP Plus Low-speed Centrifuge	60 Hz, 208 - 220 V, 19 A, single phase	NEMA 6-30P	75007530
Sorvall RC3BP Plus Low-speed Centrifuge	50 Hz, 220 - 240 V, 18 A, single phase	IEC60309 CEE 32 A-6h 1P+N+PE	75007533
Sorvall RC3BP Plus Low-speed Centrifuge	50 Hz, 400 V, 14 A, 3 phase	IEC60309 CEE 32 A-6h 3P+N+PE	75007565



Comprehensive Centrifuge Solutions

We offer a wide range of Sorvall centrifuges for the pursuit of scientific discoveries. Models include our best-selling Sorvall Legend T Plus general-purpose bench-top centrifuge, the Sorvall Evolution® RC superspeed for fast, high-volume processing, and our 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 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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BRO-SPSRC3P-1107